



From a Painting by Elizabeth Gowdy Baker

Melvil Dewey

DECIMAL CLASSIFICATION

AND

RELATIV INDEX

BY MELVIL DEWEY A M LL D

REVISED AND ENLARGED

VOLUME 1: TABLES

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Decimal Classification and Relative Index

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Modifying D C numbers

Confusion and annoyance to thousands of users caused by printing unauthorized variations force the publishers to insist strictly on full copyright protection. Every library and individual user has, however, entire freedom to make such variations as he thinks he needs, under the simple restrictions found necessary to protect the rights of others. See p. 34-38. Letter or symbol notations for changes or additions.

Note on spelling of Ed 14

^a The mean values of the parameters were calculated from the results obtained by the three different methods.

ing simpler spelling are reprinted in this edition without alteration. Statements regarding D C usage will be understood, therefore, as applying to Tables and prefatory matter, but not to Index of Ed 24

EXPLANATION

This Classification divides knowley into 9 main classes numberd 1 to 9 Cyclopedias periodicals etc so jeneral as to belong to *no* one of these classes ar markt 0 (naught) and form a 10th clas Each clas is similarly separated into 9 divisions jeneral works belonging to *no* division having 0 in place of division number Divisions ar similarly divided into 9 sections This process is repeated as often as necessary Thus 512 means clas 5 (Pure syence), division 1 (Mathematics) section 2 (Algebra) and every aljebra is numberd 512

Books on shelve and cards in a clast catalog ar arranged in simpl numeric order, all clas numbers being regarded as decimals These Tables sho order of subjects Thus 512 Algebra follows 511 Arithmetic and precedes 513 Jeometry Since each subject has a definit number all books on any subject stand together

Summaries 1st summary shows the 10 classes 2d shows the 9 divisions of each clas and is useful as a 1 page birdseye view of whole skeme Then follo 10 pages 1 for each clas giving the 9 sections of each of its 9 divisions and showing scope of the clas on a singl page

Tables These 3 summaries ar followd by ful Classification Tables which present in numeric order all clases divisions sections and sub-sections Sinonimus terms exampls brief notes dates and cachwords ar often aded to simpl heds to giv fuller and clearer idea of scope of each number Therefore all references to numbers shud be lookt up in *ful Tables* never in Summaries which ar in effect a contents table of the ful Classification

Index After the Tables an alfabetic Index of all heds givn in Tables refers by clas number of each to its exact place in Tables This Index includes also sinonims and many other entries likely to help a reader find his subject eazily Even a uzer who knows just where to turn to his subject in Tables may by consulting the Index be put on trak of valuabl allyd matter which he wud otherwise overlook

Ful explanations Illustrations and sugestions for numerus applications of this sitem and ful explanations of its nemonic and other important features ar givn in the Introduction on following pages

Supplementary tables Following the Relativ Index are 4 Supplementary tables giving lists of (1) subjects with clas number of each which may be subdivided geografically (2) form divisions which may be applied thruout the main Tables as needed (3) languages with their clas numbers which may be further subdivided by adding figures given in Supplementary table 4 and literatures with their clas numbers which may be subdivided by adding numbers for litrary forms as given under English literature (4) philologic divisions with figures to be added in subdividing any language in Supplementary table 3

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FOREWORD TO EDITION 14

Dorkas Fellows died on October 10 1938 She had been largely responsible for the memorial edition of the D C which was published in 1932 Her incapacity for service during her later years and her death following that of Dr Melvil Dewey on December 26 1931 brought to a close some of the policies and practices which had guided the revision of this monumental work

The Lake Placid Club Education Foundation has always considered the D C an instrument of service to libraries and to all persons interested in the organization and use of knowledge It has not been a money making enterprise tho it has fortunately received enough income to enable the work of revision to go on In 1937 the Foundation desired to place the control of the work on a continuing basis involving not only its own membership but the Library profession Accordingly plans were devised for the creation of a new Committee to be in charge of the D C That Committee as then appointed consisted of the following persons

Milton James Ferguson Chairman

Arthur E Bestor

Godfrey Dewey

T Harvey Ferris

Harriet D MacPherson

Ruth D McCollough

Margaret Mann

Deo B Colburn Secretary

The professional members of the above Committee were nominees of the American Library Association the others represent the Lake Placid Club Education Foundation The Committee has remained without change except for the resignation of Miss Mann

One of the early duties devolving upon the Committee was the selection of an editorial staff Myron Warren Getchell has been continued in his former position as associate editor Constantin J Mazney formerly on the staff of the University of Michigan Library was selected as editor The staff has necessarily been kept at a minimum but has had the co-operation of librarians and especially of members of the staff of the Library of Congress

The ideal the Committee has in mind is to produce a work which shall be of the utmost value to the Library profession and to other classifiers of knowledge. The fourteenth edition cannot be called the final edition of the D C a final edition will never be possible until men quit thinking and knowledge ceases to expand. It is the hope of the Committee however that this revision will prove to be acceptable to the profession both through the extensions which have been incorporated and also through the reductions of sections which seemed to be needlessly elaborate. Certain supplementary tables which have lost their original importance or uses have been omitted in an effort to give the work greater cohesion.

Simpler or simplified spelling a device which had the enthusiastic support of Dr Melvil Dewey has been discarded in the Index which had to be completely reset. Many plates have not been changed and could not be changed at this time without involving an expense beyond the power of the Committee to meet. In such tables the simplified spelling continues. Opinions rather widely expressed by librarians would seem to lead us to believe that standard spelling will facilitate the use of this publication. If such impression is in error, the Committee would be grateful for advice to the contrary.

The Committee looks forward to the publication at some future date of a so-called Library Standard Edition of the Decimal Classification. Much work must be done prior to its issuance. When it is published, it is contemplated that the entire work must be reset. At that time uniform spelling will no doubt be used thruout. The Library Standard Edition does not appear to be a possibility within the next several years.

It may not be appropriate to attempt a list of the expansions which this new edition of the D C presents but the following notations will assist the enquirer: 301 15 312 325 330-339 expanded to 38 pages 355-359 12 pages 364-365 10 pages 659 1 4 pages 700-770 147 pages 931 and 951 and important expansions from 975 to 979. All in all we believe that Edition 14 of this work will prove itself to be a worthy and dependable successor of its predecessors.

The Committee considers this work a co-operative effort published mainly for the benefit of the Library profession. It is grateful to the librarians who have helped make it what it is and earnestly solicits their continued interest and assistance. The hospitality of the Library of Congress which houses the Decimal Classification Editorial Office is gratefully acknowledged.

MILTON JAMES FERGUSON

Chairman

INTRODUCTION

¹[Simpler spelings ar strongly recommended for jeneral adoption by both American and English filologic associations, including nearly all prominent skolars in English now living

The spelling of this introduction has many more changes than we recommend for jeneral use at once. For convenient reference we hav included in 'Simpler spelling reazons and rules' (p 49-63) the famus 12 words adopted in 1898 by the National Education Association for all its official printing and correspondence, and adopted later by hundreds of periodicals, coleges and normal skools, also the 30 words, as a better typical list with which to begin simpler spelling, also the S S B rules, from which one shud select

mend that each one convinst of the importance begin with a few of these changes, ading others from time to time as he and his correspondents becom familiar with the new forms. That it 'looks queer' is admittedly the only argument left to objectors. This introduction is speld to show how it wil look if practically all these recommendations ar used. Sum with specially strong vizual prejudis wil hav attention distracted from the matter

decided to show in Introduction how extreme changes wud look!

Orijin and growth The plan of this Clasification and Index was developd erly in 1873, the result of long study of library economy as found in hundreds of books and pamphlets and in over 50 personal visits to libraries. This study convinst me that usefulness of libraries myt be greatly increast without aded expense. Only a fraction of the servis posibl cud be got from them without clasification, catalogs indexes and other aids to tel librarians and readers what they containd on any givn subject, yet, by methods then uzd, this cud be dun satisfactorily only at a cost so great as to be prohibitiv to all but a few welthy libraries. With rare exceptions, libraries wer growing rapidly. Catalogs, made at great cost, soon became antiquated. Methods uzd involvd frequent rearrangement, renumbering and remarking of books, and of necessity remaking of catalogs and indexes, as the only escape from a confuzion that seriusly cripld usefulness. In this costly repetition, work of previus librarians was larly lost. The great need was a sistem which wud enable each to stand on the sholders of his predecessors, and fully utilize their labors, which wud make work dun today permanent, insted of sumthing to be superseded in so few years as not to be worth doing in the best way, which wud supply the best applyances, insted of leaving yung librarians not only to lern how to work, but to make all their own tools.

Practical use for 54 years proves that this sistem wil accomplish this result, for with its aid catalogs, shelflists, indexes and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when dun, they ar better and vastly more permanent. Practical utility and economy ar its keynotes and no theoretic refinement has been allowd to modify the skeme, if it wud detract from usefulness or ad to cost.

¹ See note on spelling of Ed 14 on back of title-page

It was chiefly necessary to find a method that wud clas arrange and index books and pamphlets on shelves cards of a catalog clippings and notes in scrapbooks and index rerums references to all these items and indeed any literary material in any form as redily as an ordinary index gyds to proper page of a bound book This difficult problem was solvd by izing no reference marks except the simplest simbols known to the human mind arabic numerals with their uzur arithmetic values and by aiding their unequald simplicity by many practical mnemonic [mnemonic] devices

Tho the importance of clasification was recognized the filosofic sistems proposed wer so difficult fully to understand or apply that not 1 person in 1000 cud ize them practicaly Decimal Clasification simplicity and even more its Relativ Index hav made this work 10-fold eazier In recent years use of the sistem has spred rapidly in all civilized cuntries meeting success in thousands of different applications In its simpl form a skoolboy can quickly master it and keep for instant reference not only his books but every note clipping or pamphlet Almost every profession and occupation has lernd its wonderful laborsaving powers It is in daily use by myriads of business and professional men who wud never even attempt to understand or ize the old sistems

By mere addition of figures without changing this shorter form this very simpl sistem is redily made to record the utmost refinements of specialists and the Relativ Index as simpl as a b c sends the novis to the exact place where the expert has clasifyd the matter sought Thus 942 is history of England and 942 99055 is history of County Pembroke in Wales under Elizabeth 5th of the Tudors A colon between 2 numbers to mean 'in relation to' and other combining simbols for time language etc make of the sistem a compact shorthand for each fact (See p 40³ 43¹) But this brevity is les important than the eaz with which matter so markt can be arranged (giving figures and decimal point their common arithmetic value) stored as compactly as wisht and found again in the least posibl time

The sistem has been found equally valuabl for cataloging indexing analyzing and summarizing and for clasifying numbering and arranging books and pamphlets on shelves For notes on other uscs sec p 43 45⁸

The 1st edition publisht in 1876 12 pajes of tables containing 1000 sections was criticized as altogether too elaborate for even a lary library As fast however as the Relativ Index with its remarkabl powers became known the rapidly increasing uzers askt for further subdivisions til Tables hav grown from 2600 entries in Index of 1876 to 43 000 in this edition 12 becauz it has been found so eazy to gain the admitted great advantages of close clasification and yet by means of this Index avoid the old difficulties

Extent of use The register of libraries which hav actually adopted it tho growing rapidly is incomplete L braries often ize the sistem for many years before we lern the fact We register all byers of the Clasification so far as known but do not assume that a library has adopted the

sistem becauz it has orderd the book A L A Bulletin Sep 1926, p 167, estimates a use by about 14 000 libraries There is also an immense use (for which not even approximate statistics can be furnisht) by individuals with their private business and professional collections of books pamphlets etc and in their correspondence and notes files The sistem has been adopted not only thruout U S but in other parts of North America in South America in many European cuntries and stil more distant in Asia Hawau Philippines Java Australia and Africa and the Tables ar known to hav been translated either wholly or in part into French German Italian Spanish Portuguese Norwegian Russian, Hungarian Bohemian Chinese and Japanese

The table below shows the growth of the 12 editions

Number of pages

Edition	Date	Preface etc	Tables	Index, etc.	Total	Increase	Copies printed
1	1876	12	12	18	42		1000
2	1885	66	162	86	314	272	500
3	1888	4	227	185	416	102	500
4	1891	41	234	191	466	50	1000
5	1894	"	235	"	467	1	2000
6	1899	"	260	210	511	44	7600
7	1911	48	420	324	792	281	2000
8	1913	"	462	340	850	58	2000
9	1915	"	465	342	856	6	3000
10	1919	"	517	374	940 ¹	84	4000
11	1922	61	551	376	988	48	5000
12	1927	67	683	491	1243	255	8000 ²

What is the sistem? A Subject Classification with a Relativ Index³ so numberd or letterd that reference is compact accurate and quik is the essential feature anything beyond this is merely applying this plan with varius helps and accessories Any subject classification with a *relativ* index in which the entry indexes a book in the ordinary way, and also indexes shelves cards clippings or any other literary material is a form of this sistem

¹ Thru mistaken numbering printed as 936

² Tho the author is interested only in the usefulness of the sistem not in questions of priority of its invention extended investigation by others fails to show that this most important feature of the sistem — the Relativ Index on which all else hinges — had ever before been used as here to index by a singl reference most diverse material Relativ location had been used but not in the present combination with the subject index which givs it most of its value The Classification Tables while adopting suggestions from many sources ar original in their sistem of arrangement and notation and in many minor features The decimal form and many mnemonic features hav not been found in erlier use tho since their invention in 1873 these as well as the Subject Index and other features hav been very frequently copied often with but oftener without aknowledgment of their source But we ar glad to find this sistem which has cost so much labor doing good servis even for those who neglect to mention where they found so valuable a laborsaving literary tool.

³ 1340 additional copies printed in 1930 edition 13 8000 copies — Editor

~ **Notation** We devised and experimented with several notations by means of numbers letters and combined numbers and letters with bases of 26 35 50 100 and 150 yet none seemed good enough to warrant publishing details except that here printed based on simple arabic numerals with their usual decimal powers. International adoption of this system is largely because no one ever complains that any classification is too simple while there is constant complaint of complexity. Decimal simplicity has so commended itself that many think of it as the only form though obviously it would be just as much a relative index system if the classification were wholly marked by letters or other symbols.

The Subject Index is the simplest application of a b c the symbols next in simplicity to 1 2 3. This use of the simplest 2 sets of symbols known with their common meanings has given our notation its worldwide reputation as the simplest yet devised.

Best known decimal form Decimal form means simply that heads are grouped and numbered with common arithmetic figures used decimally. This is the only decimal form thus far carefully elaborated and published is commonly spoken of as if it were the only possible form of our original plan though obviously an infinite variety of relative index systems in decimal form could be made by filling the outline with different heads or with the same heads in different order.

To make out new heads involves labor and cost vastly beyond the dreams of any person who has not tried exactly this work. Time actually spent on tables here printed by various committees and individuals totals hundreds of years and has cost an immense sum. Uniform and urgent advice of the experientist is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done the maker may possibly be better suited with it but few if any others will be. It is wiser for anyone whose time is of value to use it in something more practically useful to himself and his library than in trying to construct a satisfactory scheme of classification. No one yet ever wholly suited himself or anyone else and probably no one ever will. By adopting this already worked out he saves much time and money and gains the immense advantage of using a system in common with thousands of others so that he may utilize their labors and investigations and share with them economies of cooperation.

✓ **Relative Subject Index** This alphabetic Index the most important feature of the system consists of headings gathered from a great variety of sources as users of the system have found them desirable in 54 years experience. After all these efforts many new heads are added in each new edition.

The Index guides in both numbering and finding books. In assigning numbers the most specific head that will contain the book having been determined reference to that head in Index gives proper class number. Conversely in finding books on any given subject reference to Index gives number under which they are found on shelves in shelflist or in class catalog. When any new subject comes up interline it and its synonyms in Index.

with clas number decided on so clasifyer may be uniform with himself in future work

The Index givs similar or sinonimus words and the same words in diferent connections so any inteligent person wil surely get the ryt number A reader wishing to know sumthing of the tarif looks under T and at a glance finds 337 as its number This gyds him to shelvs to all books and pamflets to shelf catalog to clast subject catalog on cards to clast record of loans and in short in simpl numeric order thruout the whole library to *anything* bearing on his subject If he turns to Tables he sees that it means clas 3 Sociology division 3 Economics section 7 Protection and free trade but the number alone is enuf to clas the book or find it for either clasifyer or reader If he had lookt under P for protection or F for free trade or D for duties or C for customs or under any other leading word relating to his subject he wud hav been referd to 337 or sum one of its subdivisions

Had he lookt for 'railroad' he wud hav found after it 22 separate entries each preceded by a word or fraze indicating the faze of the subject in the skeme A book on railroads may treat of the desirability of government ownership control etc and then is clearly a question of social syence or it may be a practical handbook for an employee explaining business methods of railroading running trains, handling freight etc when it is as clearly one of the useful arts The clasifyer knows to which of these heds his book belongs and the reader knows in which of its fazes he wishes to examin the subject Moreover 3 and 6 beginning the numbers clearly indicate character of each clas But even if significance of these figures is entirely disregarded no confuzion results for on consulting the numbers in catalog in skeme or on shelvs the difference is clearly seen In other cases it is more useful to keep books on the same subject together tho treated from different standpoints A glance at the Index tels either reader or clasifyer which plan has been adopted

All top cs in blakface typ in Index ar further divided in Tables where one may see the subheds This saves reprinting all these subdivisions wh ch wud increase Index bulk many fold e g if one having a book on prison labor looks in the Index for 'Convict labor' or 'Prison contracts' he finds at once its special number 331 51, but if on the other hand he thinks to look only for jeneral subject Labor he finds in blakface typ the entry Labor political economy 331 and turning to Tables he finds under 331 the subdivision 331 51 Convict labor the exact topic in hand

The greatest objection to a clast catalog has always been the difficulty in knowing just where to clas a book and just where to look for it when again wanted Different librarians or the same librarian at different times clast the same or similar books in widely diferent places Where one man did all the work for many years there was a degree of uniformity but even then there was danger of looking at the same book at different

times from different viewpoints, thus causing confusion. When the daily press is full of one phase of a subject, tendency is strong to class all books on this subject from current viewpoint, and next year, if a different side of this same subject is before the public, there is same tendency to class books from new viewpoint, thereby separating similar books and bringing together books on different phases. But fortunately, practical usefulness does not require that the ideas of this or that one be followed, but only that books of same character be always put in same place, and that there be some means of knowing readily what that place is. The Relative Index, with its catchwords, was designed and is found in use to meet both these requirements, for it insures that books on same phase of any subject coming before the classifiers shall be assigned to same place, and that any reader seeking these books shall be referred instantly to that place. If this is done, all requirements of a good classification are filled. If it is not done, the system is a failure, for the only real test of any scheme is its helpfulness to its users.

Some prominent opponents of class catalogs admit that the Relative Subject Index, in deciding where to class a book at first and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or easier of reference.

This Index allows a great part of the work of classifying to be done in advance by experts in large central libraries with ample resources, thus securing at a mere fraction of usual cost, better and more uniform results than would be possible to the ordinary classifier and reducing labor to much narrower limits than ever before.

To these thousands of subjects have been carefully assigned their individual numbers, many of them after long consideration and consultation with specialists. No one person is learned enough to class wisely books on all subjects and sciences, but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reached is not always wisest, all practical purposes are served, because as each classifier copies the number from same Index, all books on that subject are together, and as each reader gets his number from this same Index, he goes directly to the book he seeks.

What Relative Index includes. The Index, containing 43,000 entries and constantly being enlarged by adding new subjects, aims to include all topics expressed or implied in Tables, together with every corresponding synonym likely to be sought, but does not include most names of countries, towns, animals, plants, etc., except when mentioned in Tables, e. g. it can not enumerate all species of trilobites, but when classifier has found from proper reference books that *Remopleurides* is a trilobite, the Index sends him to 565.393, and he can class his monograph on that subject.

✓ **Tables.** The essential complement of the Subject Index is the Tables of Classification, so mapped out as to show in 4 ways — 1. e. by size of type,

face of typ indentation and number of figures prefix—each subject's rank in the Classification

The field of knowledge is divided into 9 main classes numbered 1 to 9 and encyclopedias periodicals etc so general as to belong to *none* of these classes are marked 0 (naught) and form a 10th class e.g. class 1 is library of Philosophy class 5 library of Science class 9 History etc. These special classes or libraries are then considered independently and each is separated again into 9 special divisions of the main subject numbered 1 to 9 as were the classes general works belonging to *no* division having 0 for their division number. Thus 59 is division 9 (Zoology) of class 5 (Science). A 3d division is then made by separating each of these divisions into 10 sections numbered in same way with 0 and the 9 digits and this decimal subdivision is repeated till it secures as many subsections as may be needed in any topic. Thus 513 is section 3 (Geometry) of division 1 (Mathematics) of class 5 (Pure science). This number giving class division section and subsection if any is called the class number and is applied to every book and pamphlet belonging to the library. All geometries are thus numbered 513 all mineralogies 549 and so throughout the library all books on any given subject bear the number of that subject in this scheme.

Where 0 occurs before the decimal point in a class number it has its normal zero value. Thus a book numbered 510 is class 5 division 1 but *no* section 1 i.e. treats of division 51 (Mathematics) in general and is limited to *no* 1 section as is geometry marked 513. 500 indicates a treatise on science in general limited to *no* division. 0 occurring in the 1st place would in the same way show that the book was limited to *no* class e.g. a general encyclopedia which treats of all 9 classes.

With the same general sense 0 is often used to indicate change in character of subdivision meaning in this case basis of subdivision changes at this point. 1 i.e. figure (or figures) following 0 apply to what precedes in general e.g. 505 indicates science in general treated in the form of a periodical. In history, classification is by countries (i.e. *geographic*) and as minute geographic divisions are needed for travel guides books and various other uses the figures 1-9 are generally used for geographic subdivisions and again for further geographic subdivisions as far as needed and 0 followed by another figure for time division. 1 i.e. the figures before the 0 indicate the locality as a whole while figures after the 0 indicate the special time at which the history of the locality is being considered e.g. 942.06 consisting of 942 (*geographic* division) and 06 (*time* division), means history of England in general in time of the Stuarts while 942.6 and 942.67 mean respectively history of eastern England and history of Essex to which the same time division may be added giving 942.606 and 942.6706 as the history of those localities under the Stuarts. As any subdivision may by adding figures 1-9 be given 9 further subdivisions any desired degree of minuteness may be secured in classing special subjects.

First subdivision under many rubrics is used for General and theoretic questions to provide for such specific topics as are common to all or most of the principal subdivisions of a relatively . . .

Coordination Theoretically division of every subject into just 9 parts is absurd. Practically it is desirable to classify as minutely as possible without use of added figures, and decimals on which our scheme hinges allow 9 divisions as readily as fewer. This has proved wholly satisfactory in practice though apparently destroying proper coordination in some places.

Where more than 9 divisions are needed the difficulty is commonly obviated by grouping on single numbers the subjects most closely allied or by assigning 1-8 specifically to most important subjects and grouping minor subjects on 9 as 'Other'. Since any of these groups may be further subdivided for specific topics as needed provision is thus made for an unlimited number of subjects.

As in every scheme many minor subjects are under general heads to which they do not strictly belong. In some cases these heads are printed in distinctive type e.g. 829 Anglo Saxon under English literature. The rule has been to assign these subjects to the most nearly allied heads or where it was thought they would be most useful. The only alternative was to omit them altogether. If any such omission occurs it will be supplied as soon as discovered for we intend to provide in the Tables a place for every known topic.

New subjects A new topic is always closely related to some existing head. If there is no blank number available it is combined with the head nearest allied and when important enough distinct provision for the new number is made by adding another decimal. The system is thus capable of unlimited expansion and can never break down for lack of room for growth.

Choice and arrangement of heads Detailed explanation of selection and arrangement of the many thousand heads would be tedious but everywhere philosophical theory and accuracy have yielded to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preserved in books has been appreciated from the first and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects Wherever practicable heads have been so arranged that each subject is preceded and followed by most nearly allied subjects and thus added convenience is secured both in class catalogs and on shelves e.g. Building (690) follows Mechanical trades (680) at end of Useful arts and Architecture follows at beginning of Fine arts.

Students of Biology (570) find fossil life or Paleontology (560) before and vegetable life or Botany (580) after this followed in turn by animal life or Zoology (590) ending with Mammals (599) while Useful arts (600) begin with human Anatomy (611) under Medicine thus giving a regular growth from fossil plant through vegetable and animal kingdoms to living man.

Catchtitles In naming headings strict accuracy has often been sacrificed to brevity for short familiar titles are more important than that terms chosen should express fully and exactly character of all books classed under them. Many subjects apparently omitted will be found in the Index.

assynd with allyd subjects, to a hed which bears the name of the most important only Reference to the Index wil decide at once most doubtful points

Form distinctions The clasification is mainly by *subject* or *content* regardless of form (see p 29³) but an aded form distinction for jeneral treatises is found practicaly useful

Thus in Syence there ar many compends dictionaries essays, periodicals and socyeties treating of Syence in jeneral and so having o for the division figure but treating it under different forms and therefore divided into sections according to this form 501 for filosofy or theories of Syence 502 for compends 503 for dictionaries etc This treatment is as nearly as practicabl uniform in all clases Creasy s' 15 decisiv battles is 904 the 1st figure being 9 becauz the book is clearly history, the 2d figure o becauz limited to no division of clas 9 and the 3d figure 4 becauz the book is a collection of essays

The 10 main clases ar regularly divided by form e g 809 history of literature in jeneral For divisions sections or subsections having *cnuf* jeneral material to make such division advizabl form numbers preceded by o may be uzed (e g 820 9 h story of English literature 821 09 history of English poetry) except when o and the following number hav been other wize assynd e g 821 04 English lric poetry *not* essays on English poetry 942 05 England in time of the Tudors *not* a periodical on English history A history of English literature is 820 9 *not* 809 becauz every book belongs to the *most specific hed* that wil contain it so 809 is limited to histories of literature in jeneral Books treating of many clases such as jeneral cyclopedias or periodicals go in clas o and ar then divided by form into cyclopedias periodicals socyeties or newspapers

Do not confuze form number 07 meaning methods of study or teaching with number for same subject under 375 which is for its value as a means of education or for its curriculum place

These form distinctions ar introduced at the beginning of the clas becauz the number of jeneral works is lary and these 1st numerals wud otherwise be unuzed

Form divisions always hav the same set of numbers preceded by o 1e 1 filosofy theories etc 2 compends outlines 3 dictionaries cyclopedias 4 essays lectures letters etc 5 periodicals magazines etc 6 socyeties associations transactions reports etc 7 education study teaching training etc 8 poligrafy collections etc 9 history Thus a periodical on a subject has the subject number followed by 05 e g a periodical on public helth 614 05

But if the number alredy ends in o o is not repeated before form-division figures e g a zooloj c magazine is 590 5 *not* 590 05

Minute clasing On first publication in 1876 a common criticism was that 1000 heds cud never be successfuly uzed however desirabl so close clasification myt be As soon however as actual experience proved it as

eazy to use 1000 heds in the new sistem as 100 in the old the obviously great practical value of close clasing led one user after another to urge strongly publication of more subdivisions Minute as ar many now givn there ar none that sum hav not askt for and almost none that others hav not declared needless Subdivisions ar made in such a way that one may use all or any part and ignore the rest without difficulty or confuzion thus allowing each to use minute subdivisions where he wishes or needs them without being forst into refinements in subjects where he has few books or litl interest Since the degree to which any skeme shal be applyd is optional with each clasifyer and close analysis is useful to everyone in defining content or in clarifying differences between related subjects even elaborate skemes ar printed in ful if no essential objection has been bro t against them by the best qualifyd critics The 1st 3 figures only may be used when preferd and the rest show the scope of the subject On many topics minute subsections ar printed simply for this purpose and for use in indexing periodicals and socyety transactions and in keeping notes Note typ is used for topics clearly useful only to specialists or as showing scope Many others probably belonging in same category if doubtful ar in regular typ of their grade

The advantaj of close clasing is unquestiond if the user knows just what it is With this plan it is not only practicabl but comparatively eazy If there ar only 10 books on a givn topic it is useful to hav them in groups among themselvs for otherwize they wud hav only accidental order which is of servis to no one A reader wishing a specific book shud go not to shelvs but to catalog where he can find its place quickest If he wishes a specific subject he is sent instantly to its exact place by the Subject Index If he wishes to study the library's resources at the shelvs he wil be *greatly helpd by minute clasing* A teacher showing his pupil the material on any subject wud if there wer only 20 books surely *put together* those covering same points even if there wer only 2 Much more shud librarians group closely their greater collections that readers may gain sumthing of the advantages of an experienst gyd

Thus every specialist has his own special library If a student of syence in jeneral he is sent to clas 5 if his department is zoology his library is 59 if his specialty is shels he finds all works and references on that subject in library 594 Whether a specialist needs it or not every subject being a library by itself shows resources and wants as no catalog can A catalog can not be made to take satisfactorily the place of handling books themselvs This advantaj weighs most in a colej or socyety library where many go to the shelvs but even if only librarians ar admitt'd close clasing is worth its cost becauz of aded power givn

Tentativ tables More and more minute subdivisions hav been specially cald for til the 1000 heds of 1873 with 2600 index entries in edition 1

hav increast til they command 43,000 index entries, in edition 12. After getting many suggestions sumtimes hundreds, for aditions or further subdivisions of sum subject, we draft a skeme and test it on a sampl collection To get larger cooperation in perfecting it we sumtimes print the new draft in Tables without including its new words in Index, so every uzer wil see what is proposed and if interested may test it on his own work and submit suggestions for improvement Then in the next edition with this great help, needed revisions can be made and all new words inserted in Index

As result of agreement between Institut International de Bibliographie and ourselfs (see p 40) we hav included in edition 12 many I I B expansions, while sum other expansions recently prepared by us hav not yet for lak of time, been submitted to I I B and must therefore strictly speaking, be regarded as tentativ til accepted by that body, but as these expansions wer developpt with view to such acceptance we look for litl change, and their lary number hrs made it impractical to designate them

Nemonics [mnemonics] Heds hav sumtimes been arranged to secure nemonic aid in numbering and finding books without the Index, thus China has always number 1 In Ancient history it has the 1st section 931, in Modern history, under Asia it has 951 Similarly the Indian number is 4, English, 2, German, 3, French 4, Italian, 5, Spanish, 6, Russian, 7, European, 4, Asian, 5, African, 6 North American, 7, South American, 8, and so for all divisions by languages or cuntries Italian 5 for instance, is in 035, 055, 065, 450, 850 945 and many others This nemonic principl is specially prominent in Filology and Literature, and their divisions, and in *form* distinctions uzed in the 1st 9 sections of each clas Filosofy, methods or theory, occurring as a hed, is always 1, dictionaries and cyclopedias ar 3, essays 4, periodicals, 5, associations socyeties and institutions, 6, education, 7 poligrafy or collections 8 history, 9 In numerus cases several minor heds ar groupt together as Other uzualy numbered 9

While Italian is always 5 5 is by no means always Italian Grammar is 5, Periodicals ar 5 Asia is 5 Oratory is 5 etc Even wer it posibl, to limit 5 to Italian wud waste numbering material and results wud not justify cost The purpose is to giv practical aid not to follow fanciful theory A clasifyer marking a French grammar, remembers that all Filology begins with 4 and as French is always 4 and grammar 5, he knows the number *must* be 445 Italian (5) poetry (1) is plainly 851 with no danger of being mistaken for 'poetry of grammar' or 'theory of Asia,' becauz the numbers also hav those meanings This feature is an aid, not regular method and in all doubtful cases one refers at once to Index or Tables Suggested difficulties ar uzualy creations of ingenious theorists and not outgrowth of practical experience

Wherever practical this nemonic principl is uzed in subdividing sections 558, Jeology of South America, is subdivided by ading the sections

of 980, History of South America Jeology of Brazil then *must* be 558 1· nemonically, the 1st 5 is Syence, 2d 5, Jeology, 8, South America, and 1, Brazil Any library attendant or regular uzer of the skeme recognizes 558 1 at a glance as Jeology of Brazil This nemonic feature occurs in several hundred places, and is of great practical utility in numbering and finding books without catalog or index, and in determining caracter of any book simply from its call number Extent of use is shown in 5 tables appended to main Index, giving alfabetic lists of (1) subjects, with clas number of each, which may be subdivided jeografically, (2) form divisions, with figures to be aded in making such division (3) languages, with their clas numbers, which may be further subdivided filolojy by ading figures givn in Index table 4, (4) filologic divisions, with figures to be aded in subdividing any languaj in Index table 3, (5) literatures, with their clas numbers, which may be further subdivided by ading form divisions from English literature

As in close subdivision, wish for nemonic correspondence has never outweighd any claim of greater usefulness In many cases choice between numbers was hardly perceptibl e g whether in filolojy order shud be French, Spanish, Italian, or French, Italian, Spanish In such cases nemonic numbers wer givn preference, and 54 years use has proved this wizest Great gain, beside eaz of remembering, results from this *uniform* use of same numbers with same meaning whenever similar division is made Wherever division by languages or cuntries is made, it follows filolojy or history numbers, and in Tables, the note 'Divided like 900' fully takes the place of reprinting all history subdivisions This saving justifys use of these numbers in sum cases, even where a sumwhat different order myt seem more nearly fitted to the special case, e g in 342, constitutional history of Canada (342 71) and Austrahia (342 94) next that of England (342 42) wud be better than our order, which separates them both from England and from each other Stil by following the uzual 'procrustean' numbers, many topics can be subdivided minutely without further study, by simply applying history or languaj subdivisions A singl ilustration of the astonishing power this principl givs wil suffice, tho thousands myt be givn 016 is 'Biblografy of special subjects, divided like main clasification', therefore by aid of tables under 581, 016 581974742 redily translates itself to all uzers into 'Biblografy of flora of Albany co, N Y' While these 12 figures myt never be uzed, if a specialist wishes minute division it is redy to his hand conforms to Index, and wil be clearly understood by anyone familiar with our plan A specialist wud in such cases probably adopt a contraction for his long number and uze in ful only the minute divisions See p 38² for such contractions

Decimalism Utility has not been sacrificed in order to force subjects on the 'decimal procrustean bed' *Decimals have been uzed as servants, not as masters* When subjects ar combined or separated into just

10 heds it has been from no necessity of the skeme, but becauz it seemd most useful, all things considerd. In many cases there wer originally only 3 to 7 heds insted of 10, but uzually, during years of testing before publication, it proved advizabl to divide sum of these heds as it took no aded space or labor. On the other hand, there wer cases where more than 10 heds seemd more natural, and as any number up to 100 is provided for by ading one decimal, this was dun in most cases. As only 1000 sections wer first printed it was often necessary to put 2 or more closely allyd topics together under the same number, as must stil be dun whenever a library limits number of figures used to 3, but during 54 years use subdivisions hav multiplyd til now nearly every topic hrs its own special number. The skeme givs us for each topic, as it wer, a case of 9 pigeonholes with a larj space at the top, and we uze them as every practical business man uzes such pigeonholes about his desk. If as in 220, there ar les than 9 main topics, it is often convenient to uze the extra spaces for subdivisions. Thus we keep separate, under Old Testament, historic poetic, and profetic books, and under New Testament, the Gospels, Epistls and Apocalyps. Spaces ar there, and it is convenient to uze them for jeneral works on those groups — a reason that experience proves a good anser to the charj of lak of coordination, tho indention and typ in Tables make that charj baseless. Then in 280 having more than 9 topics if we ar uzing only 3 figures we put Congregational in same space with Presbyterian, and small denominations together in the last box just as a business man puts his papers in his pigeonholes. If he insisted on having a different case made to order for each use it wud cost over twice as much, he cud not group them together or interchange them, and they wud not fit offis shelvs.

There has been perverse misapprehension of this feature and critics oftenest stumbl over 'procrustean 10'. In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It can not cum to yur door nor wait yur convenience, as does the automobile. It can not go to the fields for its loads of produce, it can not turn out for obstacls, but *because it is procrustean* it can do its larj scale work much better and quicker and cheaper. The paralel cud be fairly extended to many other cases but any tho'tful mind wil recognize that the economy and eaz of working the Decimal sistem ar larjly dependent on its being procrustean. To this we owe much of the great simplicity of the Relativ Index, many mnemonic correspondences and the useful 0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of languaj and form in Filology and Literature, and scores of similar advantajes, depend wholly on 'procrustean 10' or else on sum other number equally procrustean, but lacking the advantajes of exact correspondence to our arithmetic.

Relativ location. Economy and simplicity cald not only for the Subject Index, but also for sum plan of consolidating the 2 sets of marks

general heads and a relative index at the end shows just where to open the book to find any topic. As class numbers are put in place of page numbers this index serves for any catalog list or library arranged on this plan.

Dictionary catalog The dictionary catalog is as easily used with this system as with any other and is at present on the crest of its wave of popularity. Its failure to meet scholars' requirements has often been pointed out. While far the best for an index it still leaves much need of a good class catalog. But difficulties both of making and of using a class catalog were formerly so great that there was a conviction among many librarians that notwithstanding its great advantages the idea must be abandoned as impracticable. The other eminent authorities ably argued that the poorest class catalog was better than one unclassified and that any use of such a catalog was in itself a lesson in bibliography. Now that the serious difficulties of making a good class catalog have been so largely removed by the simple arabic numerals and Relative Index of this decimal plan the merits of class over the more common dictionary systems are doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog covering everything not fully covered by the name catalog. Instead of giving book titles under each head the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans with all the advantages it may possess. To us the simplest seemed best. We give only short heads with brief indication in doubtful cases of viewpoint taken in assigning class numbers.

We therefore unite advantages of dictionary and class catalogs not by mingling them and so losing much of simplicity of one and as much of excellence of the other but by really using both each with its own merits. Only one set of titles is needed for our class numbers make this available for both catalogs.

Advantages

Shelves The system on the shelves is the simplest form of relative location. Many libraries have adopted it for shelf arrangement where catalogs recently printed or large investment in another plan made it too expensive to change anything else. For its great advantages for shelves see p. 21^o 23ⁱ Relative location.

Shelflist By simply printing the shelflist at any time an admirable subject class list is made for any topic on which there may be present interest. e. g. if a town contemplates a new water supply interest is greatly stimulated and everything about waterworks is wanted. The librarian has only to open his shelflist to 628.1 and 352.6 and print it. This great advantage is gained with but slight variation from the form found best in its regular use as a shelflist for examination of shelves to detect losses and misplacements.

Accession book Where shelf mark columns are used tables of number of books added on each subject are readily made. A glance shows character

by subjects, of books added during any given period, for, wherever this class number occurs, it tells not only *where* the book is shelved but also *what* it is about

Pamphlets These class numbers applied to pamphlets, whether cataloged or uncataloged, have proved specially satisfactory. Number is written on upper left corner, and pamphlets are shelved in pamphlet boxes side by side with books on same subject or they may be kept in vertical files or on special shelves divided every 10 cm by perpendicular partitions or, if preferred, each pamphlet may be put in exact place as if bound. Little expense is incurred, and yet entire pamphlet resources of the library on any subject can be produced almost instantly. The immense advantages of this class arrangement, both in economy and usefulness will be appreciated by every keeper of a pamphlet collection. A name or author catalog is made on slips if time allows. The pamphlets themselves are the best subject catalog. Placing all material under its class number on regular shelves, has the great advantage of enabling anyone examining a subject to see all resources in one place so far as possible.

Save duplicates The same arrangement is admirable here. Duplicates are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still it is very important that there be some means of knowing what duplicates there are on any given subject. By simply penciling class numbers on books and arranging these numerically it is possible to give the information more quickly, cheaply and satisfactorily than in any other way.

Charging system Class numbers may be used for charging with the following advantages. Minute statistics of circulation can be made by simply counting charges and entering the number for each class on a report sheet. If filing is done by call numbers as either a primary or a secondary consideration whereabouts of any book lent or amount of use of any subject is quickly found. File gives an up-to-date record of all books lent in any subject, e.g. cards filed under 52 show for Astronomy or those under 822 for English drama just how many and what books are out and who has them. Such a circulation table, always at hand and with no extra expense or labor since it is a natural part of the system, is highly prized by all interested in character of general use of the library, while it can by trifling labor be converted into a permanent record by entering on a report sheet. If a reader's card is used character of the individual's reading is here shown and never before has so much attention as now been given to educating readers' tastes.

Subject references For these it has peculiar advantages. Many users are undertaking analyses and cross references to an extent hitherto thought wholly or almost impossible. These few figures tell as clearly as a long heading exactly what the reference is while gain in ease of use is even greater than in time and space saved in recording. The clearness and directness

all synonyms or alternative names for heads and any other entries likely to help a reader find his subject more readily. Even a user who knows just where to turn to his subject in the Tables may by consulting the Index be put on the track of valuable allied matter which he might otherwise overlook.

Use of Tables and Index

Familiarity with Classification. Get a general knowledge of the scheme by learning the 10 main classes (you will soon know the 100 divisions also without special study) so that you can tell to what subject a given number belongs from its 1st figure without referring to Tables. Specific knowledge of minute divisions will come gradually but rapidly from use. Assign numbers by using Tables alone and then always verify your result by the Index. Thus you will more rapidly acquire knowledge of the Classification and facility in its use. To do this decide first to which of the 10 classes the subject belongs next take that class as if there were no other and decide to which of its 10 divisions the subject belongs then in the same way select section and subsection thus running down your topic in its grooves which become 10-fold narrower at each step. As a check against error, even the familiar with the scheme, use Index freely.

Subject of a book. To find this out consult

1 **Title** since it is generally chosen to show what the book is about but as many titles are vague or misleading never class from title alone but always examine also

2 **Contents table**, which is best guide to true subject. If there is no contents table read

3 **Headings of chapters**, or marginal topics

4 **Preface**. Unless already certain glance thru this to catch author's viewpoint and verify impressions gained from title and contents

5 **Reference books**. If preceding means fail consult reliable bibliographies, classed and annotated catalogs, biographic dictionaries, histories of literature, encyclopedias, reviews etc. for information about character of book.

6 **Subject matter**. If 5 shorter methods above fail examine subject matter of book itself and if still in doubt, to avoid mistakes put aside one under consideration shelf till you can examine more thoroughly or consult

7 **Specialists**. Expert are usually glad to examine any new books in their departments enough to class them i.e. to define their true subject and relations. Old ones they know where to put already.

Be specially careful when dealing with flexible terms e.g. child welfare to make sure of the character of its application in that individual book.

After deciding what the book is about find this subject in Tables either thru Index or by using Tables directly which for beginners is a longer process seldom to be trusted without subsequent reference to Index e.g. Pollock's *Land laws* might naturally be classed from Tables alone

as '333, Land ownership ryts, rent', which seems exactly to fit this book. Index however shows 2 numbers both referring to land laws but from different viewpoints i.e. 347 2 legal and 333, economic. The object of this book as seen in the preface is to giv a popular presentation of English statutes pertaining to landholding not to discuss history and theory of land laws from economist's view point. It should be clast '347 2 Realty', which myt hav been overlookt but for Index.

Assyning clas numbers 1 Practical usefulness controls. Put each book under the subject to the student of which it is most useful unless local reasons 'attract' it to a place stil more useful in yur library. See p 30³

2 *Content* or real subject of which a book treats and not *form* or accidental wording of title determines its place. Following this rule put a filosofy of art with Art not with Filosofy a history of mathematics with Mathematics not with History for filosofy or history is simply the *form* which these books hav taken. Their true content or subject is Art or Mathematics and to the student of these subjects they ar most useful. (See also p 17¹)

3 Always remember that the question is not 'where wil one probably look for a certain book' but 'under what subject is the book of greatest value'. e.g. it is of litl consequence whether 'one wud be apt to look' under 595.16 for Darwin's *Formation of vegetable mould* but of much consequence that one studying erthworms shud find that book in 595.16 Erthworms since it is chiefly valuabl as a study of erthworms habits. Anyone wanting that special book shud look for it in catalog under Darwin.

4 Giv every book most specific number which wil contain it. This varies in different libraries according to number of figures uzed, e.g. specific number for 'compulsory vaccination' is 614.4738 but in a library uzing only 3 figures 'most specific' number posibl is 614 which must take everything on Public helth.

Sometimes a library unwizely puts all books of a division together if but few. e.g. all mathematical works ar markt 510. It takes just as many figures and in most cases just as much labor and if a man wants the 1 calculus in the whole library he has to serch thru perhaps 100 volumes in 510 when otherwise he wud instantly find it standing alone as 517. See also p 31¹. Number of figures in clas number.

5 'Predominant tendency' or obvious purpose of a bool uzually decides its number at once. Stil a book often treats of 2 or more subjects. In uch cases put it where it wil be most useful and make aded entries for all subordinate subjects. For a clast catalog giv the aded entry numbers on both bool-plate and main subject card as wel as on aded entry cards.

It is a markt advantaj that these aded entries notes etc. may be made from time to time at convenience. It is necessary at first to determin only predominant tendency of book in order to clas it. aded entries ar made whenever found desirabl.

Supply these numbers indicating more closely character of book as rapidly as possible and invite all specialists in connection with their reading to call attention to every desirable added topic notist. The numbers take little room and are easily added and in most cases are very valuable.

6 If 2 subjects have distinct page limits generally class under 1st and make analytic entry under 2d but if 2d is decidedly more important or much greater in bulk class under that with analytic entry under 1st. Always put a book under 1st subject unless there is good reason for entering it under another.

7 Consider not only scope and tendency of each book but also nature and specialties of each library.

Any subject of which a library makes a specialty naturally attracts allied subjects. This influence is strongest in minute classing. To admit this variation many subjects have in this scheme 2 or more places according to these different sides, e.g. a book on 'school hygiene', which a medical library puts under 613 has also a place in 371.7 where education specialists require it.

8 If a book treats of a majority of the sections of any division give it division number instead of most important section number with added entries. Unless some one section is so prominently treated as to warrant placing the book in it class a book covering 4 or more sections under division number e.g. class a volume on light heat and sound under the most fully discussed with added entries for the others but if it treats also of mechanics hydrostatics and pneumatics class as 530 or general physics though no mention be made of electricity magnetism or molecular physics.

9 When a book deals with 2 consecutive and closely allied subjects generally class with 1st and regard this as including 2d but if 2d is decidedly predominant class with this and either disregard 1st or make added entry according to importance of that portion.

10 To secure uniformity make for future reference full notes of all difficulties and decisions for it is more important to put books on same subject together than to put them in a more nearly absolutely correct place. These notes should be written on broad margins of the Class Tables or in an interleaved copy or on P slips arranged by class numbers like a class catalog.

11 Keep collected works libraries etc. together and assign like individual books to most specific head that will contain them or assign to most prominent of various subjects treated with added entries for others or better separate and class parts as independent works.

This last practice constantly grows in favor and many librarians now largely disregard uniform bindings and series lettering and unless contents of volumes are so connected that they can not be separated class under most specific head that will contain it.

12 Clas translations reviews keys, analyses ansers and other books *about* specific books with original book as being there most useful

Number of figures used in clas number Decide this according to circumstances in each library Small libraries often uze minute subsections beyond 3 figures only in certain divisions like Travel 913-919 where closer jeografic division is specially needed, and in 400 and 800 when a 4th figure is needed to separate different languages

In very small collections 2 figures myt do til growth required further division, but it is economy and saves handling books again to uze at least 3 figures at first, even in smallest collections In larger or rapidly growing libraries all subdivisions may be uzed for same reason tho number of books may not then seem to justify it Whether there ar 1 or 1000 books on any topic they take no more shelf space if clast minutely, and work is dun once for all When lary accessions cum even if a century later, this number wil not hav to be altered A library having but 20 books on Education myt think it unwise to uze the ful skeme but the whole 20 wud go on a singl shelf, and take no more room, and the Index wud refer more exactly to what was wanted Number of books yu hav on any subject has in this sistern no special weight In relativ location, any number of consecutiv topics without a book wastes no space on shelves or in catalogs Numbers ar merely skipt This not only does no harm but has great negativ value, as looking for a number and finding it blank or skipt shows that *yu hav nothing on that subject* — information 2d in value only to finding sumthing for one need no longer serch

The practical objection to close clasing is that it givs a longer number, when this is uzed to charj by in a lending library In a reference library ful subsections shud always be uzed Where short numbers ar imperativ, giv ful clas number on another part of the bookplate not to be uzed in charjing but as a gyd to contents Thus when a clasifyer has once examind a book and found out just what it is about he records it to benefit others

Bilding numbers

Jeografic divisions In dividing by cuntries according to note 'Divided like 930-999 found so often in Tables ad only the number following initial 9 for this 9 means not locality but simply clas 9 History e g 942 history of England analyzd is 9 history 42 England (4 Europe 2 England) If jeology of England is wanted ad to 55 (jeology number) 42 (number for England) and yu hav 554 2 History of N Y state is 974 7, of which 747 is locality number 353 9747 number for N Y state administration is bilt by ading to number for state administration 353 9 number for N Y state 747

Language and literature In 890 where directed to 'divide like 490', note that 890 Minor literatures and 490 Minor languages correspond exactly so that only figures following 49 ar to be aded to 89 to bild a minor literature number e g Polish language is 491 85, ading 185 to 89 Minor

literatures gives 891.85 Polish literature. In brief, to form literature from filology numbers substitute 8 for 1st figure 4 e.g. Sanskrit language 491.2 Sanskrit literature 891.2. Under 490 the filologic divisions (dictionaries, grammar etc.) and under 890 the form divisions (poetry drama etc.) *shud* be used only when clas number represents a *specific* language or literature e.g. 491.7 Russian but not 497 North American awaiting further division by language.

If directed to 'divide like main classification', as in 016, number for required subject is added exactly as it stands in Tables e.g. bibliography of Polish poetry 016.891.851.

Combining numbers in a way not printed in Tables must be done with great care or confusion results. Many users fascinated with the possibilities of the system make combinations more ingenious than useful, e.g. 'The horse's foot and how to shoe it' was once marked 636.1682.1 e. blacksmithing number 682 added to horse number 636.1. Horseshoeing is now in Tables as 682.1 while 636.168 means American ponies.

Often a classifier adds a figure to show some distinction. It seems short and desirable but later he may find he has shut himself off from using some other division greatly preferred. For his personal editions letters or other symbols not numbers *shud* be used. Every added symbol must be clearly written in Tables and Index. Never trust memory for decisions.

See also p. 35-38, Letter or symbol notations for changes or additions.

Book numbers

The call number of a book (number by which it is called for) generally consists of both class and book numbers. The same class number applies to all books on same subject; the book number distinguishes each individual work from all others in that class and is the same for all volumes or copies of same work. When a specific volume is wanted the number for that volume must be added to class and book numbers to complete the call number. Most important methods of assigning book numbers are

Author numbers. Invention of translation systems by which a name is represented by its initial with remaining letters translated into numbers e.g. Freeman 185 has led most libraries to arrange books under each class number alphabetically by authors or in local history by towns or in individual biography and bibliography by biographees and bibliographees. This keeps together all works by same author or on same town or same biographe etc. and even in large classes enables one to find any book readily without consulting catalogs. One great advantage is that same author has same book number in every subject; the figures are significant like our class numbers and translate themselves into names. Great practical mnemonic convenience results from this form of book number. Most widely used of these translation systems is C. A. Cutter's known as 'Cutter numbers', published by Library Bureau.

Special author tables A 2d method, for authors having special numbers e g Shakspeare, 822 33, or Milton 821 47, is uniform use for such authors, of book numbers A-N, with O Z assynd on basis of their individual works, as illustrated under 'Special author tables', on pages following Relativ Index.

Time numbers A 3d arrangement of books under clas numbers is cronologic by date of 1st publication. Its advantaj is in presenting historic development of subject, the book writn erliest being on the left, the latest work on the ryt and then of any givn book it is evident that all those on the left wer writn before it all those on the ryt after it. In syence and useful arts this has special value, while in literature author arrangement is better. W S Biscoe's translation sistem of dates givs a more compact and satisfactory mark for year than date writn in ful. (For ful explanations and table see 'Biscoe time numbers', on pages following Relativ Index)

Accession order A 4th arrangement, simpler but otherwize les desirabl, is in accession order, 1st book put in a clas being numbered 1, the 2d 2, the 3d 3.

It is entirely practicabl to uze 2, 3 or all 4 of these methods at same time in same library, one peculiarity of the sistem being the eaz with which it may be adapted to almost any special circumstances. The advantages of the cronologic numbering ar most markt in syence and useful arts; the alfabetic is best in clases where names of authors or subjects outrank dates, and special author numbers in cases where clas number alredy indicates author, so corresponding indication in book number wud be useless duplication while the old accession-order plan is good in special collections which must be kept separate and ar no longer aded to, since here the extreme simplicity of 1, 2, 3 order is secured with no sacrifice. It is stil better if this last method is uzed to adopt A, B, C, insted of 1, 2, 3, as 26 insted of 9 books may be markt with 1 character, and chiefly becauz it is hyly desirabl that each book number begin with a letter, which can not be mistaken for end of clas number if writn on same line, e g 1st book under 513, if numberd 1 myt be so writn as to confuze with subsection 513 1, but 513A cud not be misinterpreted. If figures ar uzed take care to write them as a fraction or with separating dash, e g 513 $\frac{1}{1}$ or 513-1.

Variations practicabl in adjusting to special local requirements

Sum uzers assume that adopting Decimal Classification and Relativ Index carries with it other parts of the sistem uzed by the author at Amherst, Wellesley or Columbia colejes or in New York State Library. In fact, the plan in each differd sumwhat from all the others and many of the thousands of public and private libraries now uzing it hav adopted stil other variations for special constituency, circumstances and resources of each library must be considered in deciding what is best for it. This decision

should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and with comparative ease and cost of introducing them into any given library.

Cautions Having decided to adopt this system in its decimal form as worked out and printed, determine whether to adopt certain variations, noted in 1-5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, without reading more than a single page of the Tables, regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations, to institute a series of 'improvements'. Experience shows that nothing could be more disastrous. It seems a simple matter to put a topic a line higher or lower, but in some cases this may affect over 100 Index entries, and there is no possible way to be sure of correcting them except by examining each of 43,000 heads. Proposed changes carefully studied out and submitted as improvements, are frequently shown by our old records to have been adopted and used in the exact form proposed till unforeseen considerations forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting voluminous records of previous experiments.

Even some who have used the system longest have been misled into adopting changes which on trial they were compelled to reject, going back to original form at cost and confusion of 2 changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes are often made, and when too late to correct them the makers regret their neglect to consult the editor and secure advice and cooperation of those most familiar with the manifold interrelations. Even were the independent divisions equally good they do not agree with those which will later be printed in Tables and Index, so that every copy of the printed scheme will have to be corrected in manuscript before it is usable in that library. The only safe rule is to *make no changes or subdivisions* without submitting them to the editor, who will gladly advise on such matters without charge, not on ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learned if corresponding subdivisions have been already assigned somewhat differently.

A user who adopts printed form avoids criticism sure to be aimed at any possible scheme. The moment he makes 1 'improvement' he must defend all his heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes made by others without consultation was written for this caution but is omitted lest it seem invidious. It illustrates how easy it is for able men to make what no one questions after explanation to have been outright blunders in 'improving and adding to' the printed scheme. We are always grateful for suggestions from anyone and having already spent so much time in efforts to improve this system for the common good of all users invite cooperation of those interested in completing needed subdivisions and eliminating any errors that remain in either Tables or Index.

Suggested variations

The following brief notes show the most important variations found practicable in the 'relative index and location system,' oftener called the Decimal Classification or 'Dewey system,' or oftentimes simply 'D C' For its essentials see p 11⁶

I Letter or symbol notations for changes or additions To protect other users from confusion, the publishers insist, as entitled to by copyright, that D C numbers shall not be printed with changed meanings or additions, without some clear indication of the fact in the number itself. If reasons which led to adoption of form printed are not conclusive to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can readily be done by using a letter or some other character than the 10 digits, to mark changes, e. g. if you wish a different set of subdivisions under any number, make it out to suit, and letter it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by your forms. In Index, cancel 1, 2, 3, etc. you have discarded, and write in a, b, c, etc. adopted. Whenever you use our exact numbers, use also our exact and universal meanings for them as indexes. For any additions or changes of your own use letters or symbols of your own which can not be mistaken for ours, using of course, our figures to the place where difference begins, e. g. if you want a new heading next to 551.34, Icebergs it can not properly go as decimal 1. Mark it 551.34a, and it arranges as wished. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in Tables. Then insert the head in its new place as above, as if it had never been in our Tables. Unused decimals are often *already appropriated* for authorized subdivisions though they may not be printed till several editions later.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for 'originality', and meet all real wants for peculiar classification in peculiar cases.

Fiction In some cases it is usually best to modify class numbers by letters as above. In popular libraries half the circulation is often fiction. It is a great saving to omit class number entirely and use merely book number, it being understood that *no* class number means 'fiction'. Some libraries go still further and for fiction omit book number as well as class number. Some even omit book numbers in other classes.

Juvenils After fiction great circulation makes juvenils a good place to economize if they are kept separate as is usually desirable in popular libraries. Books are classed as if for adults (except that a short number may be used) J being prefix to show their special character. This gives J alone as class number for juvenil fiction. J942 is a child's history of England. These books are arranged in a parallel library by themselves so J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

The separate J library can at any time be abandoned by distributing J books among the regular classes, either ignoring J entirely, or preferably by putting all J books by themselves at end of each class number. In former case, if shorter numbers have been used for juveniles than for adults they should be extended to correspond, in latter case numbers may either be extended and the books shelved at end of exact subdivision or the shorter numbers may be retained and the books grouped at end of entire section e.g. all juvenile works on English history may be kept under short number J942 and shelved after all adult works on English history, both 942 alone and 942 with subdivisions.

There are thus 3 methods 1. to have a separate J library, 2. to have J books by themselves at end of each class number, 3. to have J books in alphabetic order among other books on same subject. In this last case J is useful only to call attention plainly to their juvenile character.

Unless shorter numbers are used for juveniles than for adults the same marking is used for all these plans and one can be changed to another by simply distributing books the other way and telling attendants.

Biography For this large class opinions differ as to best treatment. Beside the plan printed in Tables the following methods are widely used.

For *individual* biography 1. e. that relating to a single person (including books containing biographies of not more than 4 persons)

1. Put all biographies in one alphabet of names of *persons written about* using 92 for class number and indicating the subject or biographee by a Cutter book number e.g. life of Grant 92 G76. This is most compact for charging and is preferred in popular libraries of large circulation. Instead of 92 for class number B is often used but is less desirable since it has no logical place in a numeric arrangement on shelves and is sometimes confused with the author's initial in fiction.

2. Distribute biography as far as possible to subjects it illustrates leaving of course under 920 the lives not bearing specially on any subject, e.g. all lives of musicians go under 780 and its subdivisions life of Wagner being 782.2 instead of 927.82 as in Tables. When 9 is used to indicate history of a special subject 92 may be used for its biography e.g. 780.9 History of music 780.97 Biography of musicians.

Collective biography may be classed in a single group under 920 or by subject under 920-928 as in Tables or distributed throughout the classification according to 2d plan given above for individual biography subarrangement with any of these methods being alphabetic by author.

Parallel libraries This treatment of fiction, juveniles and biography illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in Italian or Swedish etc. This is most easily made by simply prefixing language initial to class number. If arranged in one series of subjects this initial is ignored or all books in the special languages may be grouped under initial letters at end of each class number. The

parallel library is made by simply putting together all books having same language initial and then arranging by class numbers. Initials used are F French G German I Italian Sp Spanish Sw, Swedish Dn Danish Du Dutch, N Norwegian W Welsh A Arabic etc. Where only 1 language is so marked in a given library generally only 1 letter should be used so as to avoid an extra letter in classing e.g. S will answer for either Spanish or Swedish if used in only 1 sense. A prefix letter may, however, have been used with a different meaning e.g. R for Reference necessitating more than 1 letter for the language prefix *even if only 1 language* is represented by the initial e.g. Ru for Russian. This plan has proved very satisfactory in actual use.

Combining language and literature. Same principle can be applied also in combining each language with its literature if it is preferred to abolish class Filology and make it simply an appendix to Literature e.g. using 82f for English filology and adding filology subdivisions. English dictionaries would become 82f3, English grammars 82f5 etc. arranged either just before or just after English literature 820 821 etc. and reverse would hold true if a filologist wished to abolish Literature and make it an appendix to Filology. For a better plan see p. 39*, Broken order.

Reference library. To separate books most needed the best plan is to mark R before class numbers and arrange books together as an R library. When books are to go into general collection again draw a line through this letter.

In same way it frequently happens that a general private library is given

as in is just as brief. Same plan applies if the library has an 'inferno' for books not used without permits or for distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080 8 being regular number for general collections (as in 508 520 8 etc.) for those special libraries which can not be separated because of binding or conditions of gift but instead of the 3 figures in 080 a single letter as described above indicates the special collection and it is easy to learn location of the few special collections of any one library.

Omission of initial o in the class General works has been tried e.g. 51 instead of 051 for an American periodical but is not advised for the eye gets so in the habit of reading as Science any number beginning with 5 that there is a mental hitch if e.g. general periodicals are written 51 etc. instead of 051 etc. Another reason is that Institut International de Bibliographie (see p. 40*) regards as negligible a final o and uses the 1 and 2 figure numbers as we use those same numbers filled out by o to 3 figures e.g. 1 for philosophy like our 100 2 for Bible like our 220. Also in classification it sometimes happens that the 1st 2 figures are obvious at a

glance, but time must be taken to determine the 3d. It is convenient to write these 1st figures, but if a mathematical book receives its 1st 2 figures (51), this unfinished number is likely to be confused with the 2 figure number 51. This danger may be largely avoided by writing the decimal point after a blank, e. g. 51. , to show that a figure is omitted.

2 Contractions for specialists. The system is often used by specialists for very minute work, where decimals run out to 6 or more places. Theoretically it is better to write all these figures, thus showing relation to the universe of knowledge, but there is no practical gain to justify the labor if a great quantity of slips must be numbered. A specialist working on 'Swedish poetry of the age of Gustavus' can use a single letter instead of the full 839 715 and save 5 characters in numbering each note. Or a dash may be written for all but the last figure, thus '— 5'. A body of such notes can be inserted together in their place in an index at 839 715, with a colored card to mark the special groups with little danger of confusion. Still a stickler for theoretic completeness will write a full index number for each separate slip.

3 Use of alphabet or chronology for final subdivisions. While our plan is decimal as distinguished from 'dictionary' we *always* alphabet wherever that is more useful. Indeed the main feature of our plan is its alphabetic Relative Index. Frequently in minute divisions it is economy to arrange alphabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the year can be inserted at the end, e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biography, etc. Some may prefer to adopt this plan in places where we have chosen a grouping e. g. in chemistry, to put all metals in one alphabet under 546 3, instead of using numbers 546 3-99. If this change is wished, a more complete one will probably be better. Put all elements, metallic and nonmetallic in 1 alphabet under 546. Such use of the alphabet causes no confusion with the Index, as it simply subdivides more closely, unless as in the case of 546 3, the alphabet replaces heads already printed. In this case cancel all subsections in the Tables by drawing a line obliquely through heads discarded and mark in margin 'Alphabet by elements' e. g.

546 3

Metals

Alphabet by elements

31	Alkali group
32	Potassium
33	Sodium
34	Lithium
35	Rubidium
36	Cesium

Then find each of these heads in Index and cancel all figures after 546 3,

e. g.

Potassium	morgan & chemistry	546 39
Rubidium		546 35

This plan has special value in this place as new elements are discovered from time to time and can readily be inserted in alphabetic place. Still many chemists think it valuable to have similar metals grouped together for convenience of study and to cover books written on the group as a whole and also think it important to have a number for rejected elements because literature and references about them remain and must be provided for. New elements may be inserted as explained on p. 16³

4 Broken order Another common and often desirable variation for shelf arrangement is to break sequence of numbers to get most used books nearest delivery desk. Theory keeps numbers in strict sequence but a higher rule everywhere is 'sacrifice any theory for a substantial gain'. Practically there are few libraries where it is not best to break order of classes. Often divisions are best arranged out of numeric place e. g. 520 Astronomy may be wanted in a room accessible at night fiction juveniles and biography are always wanted near the delivery desk in a public library and in strict order are as likely to cum at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gained but there should be charts clearly showing where each division starts e. g. after 430 Preceding 830 after 520 'In observatory', it being necessary to specify room for books entirely removed from general library arrangement. The summary of 100 divisions is furnished by Library Bureau on celluloid charts to show location. Opposite each division should be marked its beginning on shelves and it is easy to vary the order as much as desirable though of course the nearer the divisions run in regular order 000-999 the easier it is for a stranger to find his way about. Variations in order of sections are less wise and seldom necessary but if made a wood or cardboard dummy in regular place should have marked on its side the actual location of any section removed.

This broken-order plan is best for bringing together filology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelved just ahead of 820 430 ahead of 830 and so for all languages making the general note that all 400s are shelved just ahead of corresponding 800s and remembering that after main languages 4 or more figures are required to indicate language alone so Portuguese filology goes between 868 and 869 Russian between 891.69 and 891.7 Bohemian between 891.85 and 891.86 etc.

5 Pro and con division of topics It is very useful in many cases to separate books on a topic with strongly marked sides so either set of views and arguments may be seen by itself. This has been done in some cases by subdivision e. g. 337 Protection and free trade. In others it is equally useful and can be indicated by an added mark e. g. 324.3 Woman suffrage. The number may be used for general works giving facts etc. and advocates and opponents may be separated by + and - for positive and negative or by p and c the initials for pro and con which though short are too long for a

circulating library to use in charging but may be disregarded for that purpose if book numbers are so assigned as to distinguish. In reference libraries on cards etc. most will prefer to write out *pro* and *con*, to mark the 2 groups. The order on shelves is of course alphabetic i.e. 324.3 324.3c 324.3p or if + and — are used the usual order is followed +, —

These 5 notes suggest the range of variations which may be made, and illustrate D.C. adaptability to widely different conditions. For book numbers which decide the order of material after it is grouped into its final classes see p. 32⁶–33⁷.

Bibliographic modifications

After study of all other available systems the Decimal Classification was adopted in 1895 by the newly organized Institut International de Bibliographie (known as I.I.B.) as best adapted for its projected universal subject bibliography to cover ultimately all subjects in all languages in all periods of the world's history.

Determining factors were

1. Decimal Classification was of topics independent of language or exact synonymy by which expressed.
2. Its notation was in itself the only international language since it consisted solely of arabic numerals used all over the world.
3. Its decimal principle allowed indefinite intercalation.

Overdetail as the Classification already seemed to many librarians lack of subdivision was the Institute's 1st difficulty and it urged us at once to enlarge the Tables. State Library duties at that time made concentration on this impossible but we promised cooperation and criticism if I.I.B. would draft required extensions. When its remarkably rapid work precluded even adequate criticism it was authorized to publish its tables and assured that the American revision would vary from them as little as practicable. At Geneva in 1924 the harmonizing of the American and European editions was agreed on and to D.C. editor was delegated the very extensive work of checking the variant forms and recommending which should be kept a work which is now well under way.

Obviously, bibliographic and general library use are so different that in some cases what is clearly best for real needs of scholarly specialists where any symbols can be used on index cards would be quite impracticable for a public library which must have symbols that can be marked on the back of books readily used by the unskilled public in writing call slips and rapidly handled by low priced runners and young clerks. This difficulty can however often be obviated by allowing alternative forms.

I.I.B. has devised and uses ingenious symbols expressing many interrelations and greatly increasing numbering capacity.¹ But these new symbols

¹ For explaining the decimal notation in terms of public decimal notation see Supplementary Table 2 following. Reprinted from index.

are too complex for ordinary shelf or catalog use the 25 years use by I I B with unskilled clerks has proved that this objection is more fear than result of fair trial. They are given here broadly for personal notes of specialists and other close classifiers to whom their vast practical advantages will strongly appeal and as a key to notation on I I B bibliographic cards. Elaborate details and explanations are in *Classification décimale* Brussels 1905 of which a new edition is announced for 1927. Obviously these symbols allow subdivision of the same number in many different ways without confusion.

The most important of these devices are 3 *Relation syn* and 6 *Place syn* and their use in libraries where they have been tried has proved that it is entirely practicable even for marking books.

The wide and ever growing range of application of certain subjects makes it impossible to subdivide satisfactorily by assigning definite numbers but use of colon to show relation between 2 subjects provides an automatic method which can be used with any subject for unlimited subdivision (For illustration see note under 150 *Sylology*).

Use of () round a local number provides an automatic method of local subdivision for any subject as there may be need in an individual library, while the symbol shows instantly the *local* nature of the subdivision.

1 *Accretion syn -|-* This simplest of symbols equivalent to 'and', indicates exactly what it suggests that the article so numbered treats of all subject numbers connected by +, e.g. 637 + 614.32 a work concerning dairies and also on inspection of dairy products.

2 *Cupling syn -* This is used for cupling to a subject a series of subdivisions common to a group of subjects as 400 *Gilology* (e.g. 45.3 Italian dictionary 45.4 Italian synonyms 45.5 Italian grammar, 46.3 Spanish dictionary 46.4 Spanish synonyms 46.5 Spanish grammar) 800 *Literature* (85.3 Italian fiction 85.4 Italian essays 85.5 Italian oratory 86.3 Spanish fiction 86.4 Spanish essays 86.5 Spanish oratory) 546 *Inorganic chemistry* (546.51.3 Oxids of lead 546.51.4 Sulfid of lead 546.51.5 Chlorid of lead 546.56.3 Oxids of copper 546.56.4 Sulfid of copper 546.56.5 Chlorid of copper 546.57.3 Oxids of silver 546.57.4 Sulfid of silver 546.57.5 Chlorid of silver). It should however be used only where such use is specifically mentioned in the Tables as confusion would otherwise result. This syn is so similar to that commonly used for 'to and including' that when it is used with *Institut* meaning it is advisable to use word 'to' for the other meaning.

3 *Relation syn* This is most useful symbol of all as it involves no change of number except omission of final 0 by those preferring shortest form. It indicates merely that subjects so connected are *considered in relation to each other* thus affording means of expressing almost limitless interrelations e.g. ethics in relation to fine arts is 17.7 (or, better in full 170.700). Vice versa art in its ethical aspect is 7.17 (or 700.170) order of

numbers before and after colon depending on emphasis, or on subject with which they are to be arranged

4 **Form syn** (o) Form or generalities are expressed by a parenthetic number beginning with o. This is further subdivided as follows

(o) **Form symbol**, e.g. 335(o 843) means Socialism treated in form of a French novel

(oo) Subdivisions peculiar to a subject e.g. for history it means sources. It is further subdivided and in some cases modified by a hyphenated figure e.g. 9(44) (oo1 3) means *Catalog of official sources of French history* (oo1) meaning official sources and -3 meaning catalogs, indexes, lists, etc.

(o1)-(o9) are the same as our regular form numbers o1-o9. Obviously we can not replace our long established simple form numbers by something so much more complex that it is impracticable for shelf use.

5 **Universality syn** ∞ The mathematical syn of infinity is used with place and time syns to mean 'Without limitation' with place syn (see 6 below) it means 'including all places', e.g. 9(∞) History of all countries with time syn (see 8 below) it means 'covering all periods', e.g. 9(∞) ∞ History of all countries at all times.

6 **Place syn** (3)-(9) These replace our regular country subdivisions found in 930-999 but do not conflict, as I I B merely leaves D C 930-999 vacant and writes History of France 9(44) instead of 944. Other auxiliary place numbers indicating general region, direction, geologic place, prehistoric time, etc. are also provided in place curves.

7 **Language syn** \approx This syn preceding language numbers as found in 400 Filology indicates subdivision by language e.g. 523 5 \approx 9185 means a work on meteors in Polish 91 85 being filology number for Polish language in 400.

8 **Time syn** " " Numbers denoting time division are written in quotes. I I B scheme gives an elaborate time division system based on exact dates e.g. "1922 12 11", meaning year 1922 12th month 11th day.

9 **General points of view syn** oo Each of the following numbers for point of view (except oo5) has also a series of subdivisions:

- oo1 Speculative idea purpose plan etc
- oo2 Realization execution construction etc
- oo3 Economic industrial production cost and sale prices etc
- oo4 Service and use workings administration
- oo5 Equipment and apparatus
- oo6 Buildings and establishments details of organization and service
- oo7 Special personnel

10 **A to Z** Alphabetic arrangement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these symbols in this number may be varied by users to produce any special arrangement wished, but unless distinct notice of this is given, sequence is arbitrary in the following order

$$() " " = - A Z$$

e g 9(44)"17" = 2 History of France in 18th century, written in English

Other uses

Though this system was devised first for library catalog and shelf arrangement, 54 years have developed many new applications. Nearly every administrative department feels directly the great economy, and in every field of literary activity this classification has been found a great labor-saver, whose practical usefulness has exceeded the most sanguine hopes of its early friends.

Bookstores. The plan is a great convenience to both dealers and customers, when applied to miscellaneous stock. Very often a much wanted book, specially if not recently published, is reported 'not in stock', when D C arrangement by subject would have revealed its place at once. Specialists often find on shelves books they would never have ordered but are glad to buy after examination. Experience proves it profitable for a dealer to arrange his books so each person may find what he is interested in without examining entire stock.

Office files. A great file of papers is like a library in miniature. Experience the world over proves that while alphabetic and numeric systems are invaluable for many purposes, complete usefulness demands close classing as material grows. The best plan is to combine simplicity of numeric and utility of class as in this Decimal Classification and Relative Index used by most libraries. The simplest possible printed index of 43,000 heads tells instantly by what number to mark or to find any paper. Insurance is marked 368. This means class 3 Sociology, division 6, Associations and institutions, section 8, Insurance. Fire insurance is first subdivision, so every paper about fire insurance is marked 368.1 and goes in the drawer in numeric order, where it can instantly be found through the printed Index.

54 years use in a score of countries has proved this numeric system with its Relative Index, a marvelous labor-saver. Classification is a necessity if all material on any given subject is to be readily found. The labor of making one's own classification is usually prohibitive, if well done. By adopting the scheme in general use by libraries this labor is saved and numbers are in harmony with those of thousands of other catalogs and indexes in which the same number has the same meaning, for, as pointed out at a recent international congress, these numbers are the only international language of perfectly definite meaning among all civilized nations, and also cheapest and quickest in application.

A successful man is usually a classifier and chartmaker. This applies as much to modern business as to science or libraries. Higher education differs

from elementary in studying not mere facts but their *relations to all other facts*. Alex Bain wisely said 'to learn to classify is in itself an education'. The man of much business or affairs must study every problem in its manifold relations. He must classify and make charts of his results. Without these he is like a sailor in strange waters sooner or later shipwrecked unless he uses charts to find safe channels as well as to avoid rocks and shoals. A large business or work unclassified or uncharted is not a worthy organization but mere material from which a clever brain may construct one. It differs in efficiency from the ideal as a mob of men differs from a well-disciplined army. Piles of brick and mortar are not a temple any more than heaps of typewriter Shakspeare's works though 'classified' and set each in right relation to the rest; the transformation is brought about.

Scrapbooks. The plan has proved the best for keeping newspaper clippings. Use manila sheets of uniform size (we find 20x25cm best). Write class number of subject in usual place on page and mount clippings on sheets as in a common scrapbook. These sheets are arranged numerically like a card catalog sheets of each class being further arranged when desirable under alphabetic subheads. When one sheet is full insert another at the exact place. Thus perfect classification is kept up without blank sheets and at smallest outlay of money and trouble. Scraps thus mounted are shelved either in manila pamphlet cases or in patent binders or are kept in vertical files.

Index rerums. These are best made on standard P size (7.5x12.5cm) cards or slips. Light weight catalog card stock is best for private indexes etc. It costs only $\frac{2}{3}$ as much as heavy bristol takes only $\frac{2}{3}$ room and handles easily.

Where durability and convenience of handling are less important than cheapness use common heavy writing paper. Novices often greatly diminish usefulness of the card system by using ordinary machine cut cards or slips varying in height so much as to make quick and accurate manipulation impossible. Extreme variation to be tolerated is 1 mm or $\frac{1}{16}$ inch. This will be understood by placing a 7.4cm card between two 7.5cm cards. In rapid turning fingers make a bridge across taller cards and miss the lower one entirely. Cards must be accurately cut or they lose half their value and in many cases necessitate recopying material at a cost 10 fold greater than to have thrown away imperfectly cut cards or slips at the outset.

Class number is written in upper left corner any alphabetic subject headed follows at right and notes fill card below. Cards are then filed in order of class numbers the cards of each class being further arranged like scrap sheets according to any alphabetic subheads.

Paper the size of scrap sheets 20x25cm arranged and stored the same way may be used instead of cards. This has the advantage of a full letter page in sight at once and holds over 5 times as much as card. While the system can be applied to slips or sheets of any size there are literally hundreds of access

sories and conveniences exactly adapted to these 2 sizes, which are used much more than all others combined, so it is folly to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the best are Billet 10x15cm, Note 12 5x20cm, and Ms 15x25cm. Often users of some other size finally find it profitable to change to either P, 7 5x12 5, or to L 20x25cm, even at cost of rewriting many notes.

After 50 years use of P size, countless millions of cards are in catalogs and indexes in scores of countries, so it would be quite impossible to change from 7 5x12 5cm. But recent study and experiments have shown that sheet or room proportions are most pleasing in ratio of 1 to square root of 2, or about 5 to 7, i.e. ratio of the side of an equal side triangle to its hypotenuse. An immense practical advantage is that this is the only ratio where continuous halving gives always the same ideal proportion. This results in market economy in cutting sizes from large standard sheets. The favorite letter sheet is 19x27cm. This fits most vertical and other files. We now use it instead of 20x25 and 15x25. Half this size is a pleasing small quarto 13 5x19, and its quarter is a very convenient pocket size, 9 5x13 5cm. These replace our old Note and Billet sizes.

Note books are best in loose leaf form. A much poorer method is to take a bound blank book and assign class numbers in order giving about the space it is thought each will require and when pages so assigned are full, note at bottom where rest of the material may be found. This has all objections of old fixed location as compared to relative, and will hardly be adopted by any person who has ever seen loose leaf simplicity and economy.

Scores of devices for convenient handling and storing of these slips and sheets and of pamphlets are manufactured. The full descriptive and illustrated catalogs of Library Bureau give details.

Topical indexes. Class numbers are used to index books read. Simple numbers take the place of a series of words, and results can be handled arranged and found much quicker. Such entries may be kept separate or combined with index reruns.

Advantages for making topical indexes of collected works, periodicals, transactions etc. will be evident to every indexer or librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves as seems best in each case.

These are only a few of the systems and varied applications. Enough have been mentioned to show its wide adaptability to wants of librarian, student and business man.

Separates

There is growing use by specialists who wish very detailed tables of their own subjects but only so much else as will show perspective of these subjects in the general scheme and provide for broad classification of other material on the same plan. As fast as demand will cover expenses any subject elaborated will be published separately with general explanation,

directions for use, 3-figure tables for other subjects and full index e. g. normal school libraries specializing on education will want the elaborate 370 scheme but may not need to carry classification of other subjects beyond 3 figures, electric engineers may have no use for 370 but will need all details of 621.3, with only 3 figures for other subjects

This brief account has probably failed to meet some objections which may be raised and could easily be answered.

The much elaborated and in some few points altered the essential character of the plan has remained unchanged from the first. Revision and expansion constantly in progress involve many new interrelations. As extensive advance testing of new schemes is not always possible, practical applications are sure to develop unnoticed faults. Classifiers are therefore asked to use new tables critically and report defects of any kind with proposed remedies and any needed subdivisions, also any heads needed for the Index. All such criticisms are a decided help and favor.

Acknowledgments

The labor on Classification and Index has been wholly beyond appreciation of any who have never attempted a similar task.

In his varied reading, correspondence and conversation on the subject the author has doubtless received many suggestions and gained ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan adopted by the Italian publishers in 1871, though he copied nothing from it more than any other single system stimulated his study of the problem. The plan of the St. Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resembled his own were not seen till all essential features were decided on though not given to the public. In filling the 9 classes of the scheme the inverted Baconian arrangement of the St. Louis Library was followed. The author has no wish to claim original invention for any part of his system where another has been before him and would gladly make specific acknowledgment of every aid and suggestion where it is in his power. Though at its start a little book it came not forth except by grievous labor.

Much valuable aid has been rendered by specialists who have assisted greatly in developing tables. Among these are many well known scholars and to all most cordial acknowledgment is made. Without such assistance the present development could not have been attained for many minds were necessary to supply technical and special learning absolutely essential in filling minute heads. Indeed in many subjects the author's share has been limited to modification necessary for technical adjustment to his scheme of material prepared by specialists. To many prominent librarians we are indebted for valuable suggestions and appreciative criticism.

While these friends are in no way responsible for any remaining imperfections they should have credit for many improvements made in these 54 years of revision during the first 3 of which the scheme was kept in manuscript that its many details might be subjected to actual trial and modified where improvement was found practicable

We are under deep obligation to Institut International de Bibliographie for its great volume of valuable work covering almost the whole range of subjects and also for its advice and criticism during progress of our own expansions To Dr C W Andrews John Crerar librarian Chicago and to American Library Association classification committee of which for past 10 years he has been chairman we are greatly indebted for interest and advice

W S Biscoe From first publication to the present the most extended and valued assistance has come from my college classmate associate and friend Walter Stanley Biscoe my first assistant in Amherst College Library in charge of which he succeeded me resigning to accept again in 1883 the place next me in Columbia College Library and again resigning in 1889 to become librarian in charge of classification and catalogs in New York State Library This book is witness to the rare unselfishness with which he has given time taken from rest and recreation to this work in which he shared my interest and faith

May Seymour Except a year in charge of classification in the Osterhout Library she was with me 34 years from her entrance to the first Library School class in 1887 till her death June 14 1921 At New York State Library classification was her department till she was made director's assistant For 32 years every item of work on new editions past through her hands For each of editions 4 to 10 she did all editorial and much constructive work secured expert cooperation called attention to faults or omissions and sought the best available compromise where doctors disagreed devoting to this vast labor rare scholarly industry and a loyalty for which no words of thanks can be adequate She shared my faith in its immense usefulness did the hardest work and deserves the gratitude of all who profit by this invaluable laborsaver I often asked that her name appear on the title page of the book to which she gave so much but she persistently refused

Her place as editor was taken by one of her own choosing Dorcas Fellows who more than anyone else had worked closely with Miss Seymour for 25 years and who will give future editions the benefit of cumulative experience in which she so largely shared D C users are congratulated that Miss Seymour's position is held by the one whom she herself chose as best adapted to carry on her work For 5 years past her headquarters have been in New York State Library at Albany which has long been regarded by many as D C's library home but recent developments in relations of American Library Association Library of Congress and Decimal Classification have resulted in an invitation from L C to D C to make its home henceforth at that Library where most appropriately

D C s servis to American libraries which is the chief factor in its work wil be coordinated with undertakings previously instarl by the national library extending stil further the latter s alre dy great servises to the libraries of the cuntry at larg

Future of D C

Mrs Seymour had a stedily growing wish to make D C a permanent force for education by greatly improving its ful short and outline editions and by printing cheap special editions (index) for many prominent divisions e g education medicin engineering agriculture As a memorial to her all copyryts and control of all editions hav been givn to Lake Placid Club Education Foundation in establishing which she had been warmly and actively interested and which was chartered by the University of the State of New York Jan 26 1922 with these objects

'as an educational institution to restore to helth and educational efficiency teachers librarians and other educators of moderate means who hav becom incapacitated by overwork to establish maintain and aid skools libraries or other educational institutions specially at Lake Placid and to institute organize or foster other movements to advance public welfare thru education by means of the Foundation pres conferences forums addresses gyded reading and similar agencies

To this Foundation was at once givn all voting stok and surplus of Lake Placid Co which owns the 10 000 akers and 391 bildings of Lake Placid Club thus assuring permanent fnancial support which has alre dy been further increast by gifts and bequests from interested frends Under Foundation auspices future editions of D C wil be publisl t on absolute condition that entire reciets abuv necessary expenses be uzed forever solely for improving D C and extend ng its usefulness thereby preventing possibility that the work shud ever be made a source of either individual or institution profit A committee on D C consisting of the most interested Foundation trustees in cons litation with committees of American Library Association and Institut International de Bibliographie wil insure observance of the abuv condition

D C has becom an international laborsaver It therefore justly belongs to its uzers as a whole All who contribute to the stedy improvement of future editions may kno that they ar helping to make stil more useful a sistem which is so greatly helping stedily increasing thousands scattered all over the civilized world

MELVIL DEWEY

LAKE PLACID CLUB N Y

Dec 10 1926

Previus editions hav been dated Amherst College Library June 10, 1876 Columbia College Library Aug 10, 1885 and Aug 30 1888, New York State Library Dec 25 1890 Lake Placid Club Ap 10 1911 Ap 10, 1913 Oct 1 1915 Aug 11 1919 and Aug 31 1922

SIMPLER SPELING REAZONS AND RULES

Reazons

¹Uzers of the Decimal Clasification ar entitled to kno why the author feels compeld to recognize practicaly the urgent claims for reform in English spelng by adopting enuf of many needed changes to call evry reader s attention to the crying situation

Many wil be annoyd and sum wil ridicule, but since 1872 I hav constantly studid, with very unuzual opportunities, the need and practicability of this reform From its founding in 1876 at the Philadelphia Centennial I hav been secretary of the Spelng Reform Association I servd several years on the advizory committee on spelng and pronounciation for our greatest and best English dictionary, the Standard While executiv offiser of the University of the State of New York, which has chary of all hyer education, I uzed my great opportunities for studying relations of spelng to education As a trustee and on its Executiv Board I hav shared activly from its orijin in Simplifyd Spelng Board work, to which Andrew Carnegie gave (up to his deth) \$10 000 to \$25 000 yearly to spred correct knowlej about English spelng and the great need for its improvement I also servd on the National Education Association committee which, jointly with committees of the American Filologic Association and Modern Languaj Association, during 10 years careful study made the key alfabet now uzed in the entire series of Standard dictionaries and in all books based on them I was president of the Efficiency Socyety and also of the National Institute of Efficiency, and chairman of the committee of each on 'Efficiency in English writn and spokn' It is therefore not an advocate of a new fad who speaks but one who has for over 50 years kept in tuch, personaly and by correspondence, with others studying this matr, not only in many American states but also in Canada, Great Britain, India and Australia and with many in non English speaking cuntries

In the past $\frac{1}{2}$ century the most competent jujes hav cum to almost unanumus agreement as to imperativ need for radical improvement On this point great universities editors of all great dictionaries leading educators of the English world, and recognized leaders amung students of English all agree It has been publicly stated in lary meetings of languaj skolars that there was no recognized authority on English living who did not now believ in the urgent need of spelng reform

But as to the best *method*, there ar 3 skools with their various combinations. All agree that there is only 1 entirely satisfactory goal, 1 e just 1 distinct syn for each of 40 distinct sounds and just 1 sound for each of these 40 syns But we now hav over 500 symbols or combinations to represent these 40 sounds 'Shay' has only 2 simpl sounds The

¹ See note on spelling of Ed 14 on back of t tis-page

sh is speld in 20 ways and the *a* in 24 ways i.e. this simpl word of only 2 sounds may be speld 480 ways in exact analogy with other English spelings Webster's *Dichonary* says Shakspeare's name was speld 30 ways the Mainwaring family records sho 130 variations in their name and A. J. Ellis made over 6000 spelings of scissors, all justified by dictionary analogies Booker Washington told me that they wud not graduate from Tuskegee one who cud not spel and pronounce correctly this sentence 'Though the rough cough and hiccough plough me through I ought to cross the lough' We markt agenst each letr all the different ways of pronouncing it in English By simpl permutation this showed over 16 000 000 ways in which this sentence cud be pronounst Then we markt agenst each sound all the different ways of spelng it and proved that there wer 66 decillion (66 000 000 000 000 000 000 000 000 000 000) ways of spelng the sentence each justified by analogy Yet he was soliciting money to teach those poor colord students just which of this infinit varyety must be used before he cud graduate

One group believes in ading 6 new consonants for *ch ng sh zh th* and *dh* and 11 new vowels for *asc q* and *x* duplicate *s k l w* and *ks* or *gz* we hav only 23 letrs toward the 40 needed in a perfect English alfabet These letrs wud then be used with as invariabl meanings as arabic numerals and we shud be rid of varius devices for expressing sounds for which we hav no distinctiv letr e.g. for the word *fyn* we ad *e* to *fin* and say that *servil e* is silent where writn but means that the *i* in erlier part of word is not *i* but the difthong *ai* combined of the sounds of *a* in 'ar' and *i* in 'it' This is exactly analogous to writing 4537 and saying that 7 is silent but means that the 5 is really 9 so the number is 493 We ar so uzed to these absurdities that we recognize their folly only when translating them into an exactly similar case with arabic numerals

When these wer introduced into English the identical arguments put forward today agenst syentific spelng wer urjd agenst the strange arab characters Men said Every child knows at a glance that V is five but who cud understand *v*? which they printed lying on its face

No one questions that *complete* reform is best Most skolars however think it unpracticabl to do it all at once except among a limited clas becauz of difficulty of introducing new letrs on typwriters and for printers We hav evolvd *i* and *y* from *i* letr and *u* *v* and *w* from *v* and skolars say we shal in time in same way evolv the other new letrs needed

The Simplified Spelng Socyety of Great Britain attempts to solv the problem without any new letrs by using digrafs as we hav alre dy dun for *ch ng sh* and *th* This has the advantaj that every typwriter and printer is fully equipt for new spelng It has the great disadvantaj that it lengthns many words and offends the eye much more than new letrs It is as absurd to use *c* and *k* to represent a sound which has neither *c* nor *k* in it as it wud be to uze 74 to represent 5

The Simplfyd Speling Board (American), supported by Andrew Carnegie til his deeth and now working on its own resources, decided that the most practical plan was to list a limited number of most needed changes, to urj for immediate jeneral adoption, thus expediting the stedy growth toward syentific speling shown by the history of English. This method is eaziest but involvs glaring inconsistencies, e g it drops 1 of dubl consonants final in most cases speling *mis*, *dol*, *tel*, but leavs *all*, *roll*, *hiss*, *off* becauz they wud be mispronounst by most peopl if shortnd.

1 word is speld perfectly like 'fel', perhaps the next is improved in only 1 silabl like 'acquisitiv', and the next may be worst of the 3 and not changed at all becauz we lak necessary new lettrs, e g 'functioning'. S S S (English) is *consistent*, for it spels each word foneticy, and this entire consistency appeals to sum so much that they endure longer awkward forms. S S B (American) offends the eye much les and *shortns* nearly every word it changes, but has the fault of incompleteness.

The 5 reazons for speling reform ar

1 **Disgrace** of having what experts agree is the most illoycal, unsyentific, unskolarly and altogether worst speling of any languaj in the world. While this greatly discredits the peopl that hav becum greatest in all history, it is least of the 5 reazons.

2 **Criminal waste of money**. Careful count of many English selections shows that 15% or 1/7 of the lettrs wud be saved by strictly syentific speling. This means waste of 1/7 total cost of everything connected with writing or printing English: stationery, time, composition, proofreading, paper, ink, preswork, binding, transportation. Not only ar these countless bilions wasted each year, but there is enornus waste of time in hesitating as to ryt speling: consulting dictionaries, interrupting train of tho't, which fairly translated into money makes a staggering total.

3 **Criminal waste of skool time**. A committee of expert educators after munths of consideration agreed that on the skool life of a chuld going from kindergarten to university we cud save 3 years if we cud eliminate speling books and everything connected with them as is dun in completely fonetic cuntries where speling is merely pronouncing a word letr by letr, so anyone can spel if he can speak. This waste is not alone in speling clases, for in all other studies speling is a continual handicap and wastes time not only in skool days but all thru life.

4 **Adling brains**. Any student of child sykology knows that one cud hardly devize a more dedning process to a normal brain than to teach such words as *bone*, *done*, *gone*, *love*, *more*, *rove*, *lose*, *close* or worst of all, *Though the rough cough and hiccough plough me through I ought to cross the lough*. If the brain works normally the chuld surely pronounces the vowels of the later words like the 1st. If 'though' is 'tho', surely 'rough' is 'ro' and 'cough' is 'co'. Long before he reaches the 8th word he is

redy to believ any absurd thing that is told him, and finds in English it is a matr of personal introduction to each individual word before there is any safety as to how it may be speld or pronounst Ex president Hill, of Harvard University, declared that no man ever had or ever cud spel and pronounce every word of English correctly, as it was beyond human posibility to becum intimate enuf with all the 4 million words in the latest dictionaries

An associate city superintendent of skools in New York says

'Next to lerning by imitation, the child must be taut to lern by association and analogy He dev

stand for wel-known oral words, he is staggerd at 'rough' and 'enough', frequently uzed in conversation Having lerned that these characters stand for 'uff' and 'enuff' from his knowlejd when the teacher tels him that a word his mother uzes when a child stands for the malady so

ingruities of our spelng must be masterd, occupys many years of skool life, and

tancy or fear of drawing any inferences upon data relating to other fields with respect to what extent rably los, by failure to aquire confidence in exercize of his jymnt as a result of his erly stultification during process of lerning to master spelng of common words, may never be determind

5 English as world languaj Except for its scandalusly complex spelng, English is betr fitted than any other languaj for universal use It is practicaly grammarless Pedants hav sadd us with an adaptation of Latin grammar which is almost useless English has strength, simplicity, conciseness, capacity for taking words freely from other tungs, and best of all has the greatest literature the world has yet produced Great German filolojists hav said 'it is lucky for the rest of Europe that the English do not realize that only its absurd spelng stands between their languaj and erly world empire' If we chek over the past 5 centuries the growth of English is astounding Once Portuguese with its great Brazilian cuntry had sum chance, or Spanish with South America, but French came to be the languaj of diplomacy and more than any other the world languaj Each century Germany, with its hy birth rate, gaird rapidly, and it soon past France. Russia with its countless millhons came in as a leading competitor but each century the most significant and remarkabl

growth was English. Long it was English. German. French. then English. German. Russian. The World war sadly handicapt all other competitors just when it greatly improved the position of English. 3/5 of the world's business mail is now in our language and this ratio grows yearly. Recent prominent French journals have frankly published to their people *the need for every Frenchman to learn English* because it was already the world's business language and rapidly growing. The far-sighted Carnegie made his great gifts for simplified spelling for 2 chief reasons. He had given the Peace Palace at the Hague and recognized that a common tongue was the greatest protection against war. His study of history taught him that race, color, religion and geographic location had less influence than a common tongue in binding people together. Our phrase 'He doesn't speak the same language' indicates hopelessness of agreement. He knew that no force would contribute so much to world peace as spread of a common tongue. He knew that this would carry Anglo-Saxon ideals of liberty and tolerance throughout the world. The canny Scot knew also that it would do more than all else combined to extend and strengthen our commerce.

Can anyone not blind to human welfare face these undoubted facts and not feel bound to help on wherever practicable a reform that many educators and publicists recognize as more important and as having more far-reaching results for America and the world than any other? The solution to most of our social problems lies not in legislation and police but in *education of the masses* so that they will *know and prefer the right*. Such education must be chiefly *through reading* for the great mass of people can be in school only long enough to learn to take from the printed page the author's meaning. Their real education must be not in the few school days in youth but all through life and coming chiefly from reading books, magazines and papers. Those who believe in working for a better world must see that the first great step is to take from the path of education this greatest stumbling block for our spelling not only wastes millions of years for every generation but dedens and dwarfs childhood's brain by its gross absurdities. Can anyone not a selfish moral coward knowing these facts refuse to help get rid of the incubus by using at least a few of the shorter better forms in his own writing?

Disregard of pedants' rules Thomas Jefferson said: Where strictness of grammar does not weaken expression it should be attended to but where by small grammatical negligences the energy of an idea is condensed or a word stands for a sentence I hold grammatical rigor in contempt.

Study of the past 5 centuries shows how greatly English has been simplified and improved and how absurd is the frequent comment of those ignorant of the life history of English that language cannot be changed by conscious efforts of its users. Of thousands of improvements made in the last 500 years every one was *used first* by someone who saw the need and had the moral courage to be a pioneer and disregard rules of pedants of

his day The greatest need of the English world is to simplify its language specially in spelling so it may be used by all nations It is disgrace to be blind to the facts or to be too cowardly to use sum at least of the needed changes and so risk criticism or ridicule of the ignorant The great function of English is to *convey author's thought clearly and compactly to reader's mind*

Arabic figures are the simplest symbols known to man It is silly to write out 'eighty-eight' or 'LXXXVIII' for the symbol 88 or to write 'three hundred seventy-eight' with 24 letters when 378 is 1/8 as long and vastly clearer Modern pressure for space and economy has led many prominent journals to substitute figures for words but most of them still fear the silly pedants' dictum that figures must not begin a sentence But figures are winning their way specially in headings and our descendants will wonder at our stupidity which so long prevented full use of 1 of the world's greatest labor-savers It is like continuing wigwag signals after invention of telephone and wireless

37 years ago I advocated dropping useless *al* from *academical* *graphical* etc Persistent use was copied by others till now many of our best writers avoid the foolish *al* and get stronger as well as shorter words When adding adverbial *ly* we should still omit *al* and say *graphically* *academically* etc In fact very few people pronounce the *al* in common speech If we adopt Thomas Jefferson's standard we should expedite greatly many needed improvements in our great mother tongue

Consistency This is the hobgoblin bugbear of little minds If a printer sets types which really should be omitted or changed we often avoid expense of correction for consistency with other spellings is less important than to break down by combined efforts of scholars and men of affairs the immense and stubborn pedantic foolish prejudice which sees something sacred in the common spelling of a word while it thinks little of constant variations in its pronunciation Many who would gladly help the cause are too busy with large affairs to spend time in looking up rules They should simply spell better whenever they think of it and not be troubled if on the next page they forget to simplify Have Thomas Jefferson's courage and hold pedantic consistency in contempt

Conciseness We should use shortest forms of expression consistent with clearness The 2d forms below are as much stronger and better as they are shorter

this has been found to be an encouragement to good work — this
encourages good work
extend an invitation — invite
take into consideration — consider
the purchase of — buying
purchasing agent — buyer
a large number of — many

due to the fact that — becauz
 sum of \$10,000 — \$10,000
 in a prudent manner — prudently
 put in an appearance — appear
 the twenty-eighth day of May in the year of our Lord one thousand
 eight hundred and ninety nine — 28 May 1899 (79 rs 9 tyrs)
 it is often the case that authors fail — authors often fail
 giv the boundaries of — bound

Can it be dun? Absurd spelings like old 'fyshe' and 'dogge' for 'fish' and 'dog' ar slufing off useless lettrs as a tadpole loses its tail, or as scum rizes from boiling sap in a maple orchard Samuel Johnson in 1755 printed a dictionary which greatly delayd this natural process Uzing neither rime nor reazon he embalmd in a book, with the weight of his great name, simply the usaj of London printing offises, which wer run almost wholly by Dutch and German printers, many of whom knew no English He lud down as a sacred law, 'Uphill with 2 ls' but 'downhil with 1', and endless similar absurdities at which we laf but we hav made 'downhill' as difficult as his 'uphill' and stil look askance at one who spels 'til' as he does 'until' Our greatest filolopst, William D Whitney of Yale, editor *Century dictionary*, wrote to our 1876 International Conference on Speling Reform a concise statemnt which has been very often reprinted, and I think never questiond by any competent authority 'The true and sole offis of alfabetic writing is correctly to represent spokn speech' Writing is attempt to convey to 1 at a distance (either in space or time) what wud be spokn to 1 close at hand, and therefore writn word shud represent spokn word as exactly as posibl

Many changes wer merely corruptions resulting from slipshod pronunciation and lak of accurate spelng, which wud hav been a relyabl gyd Always many changes ar inevitabl in any languaj as its words and idioms gro, dy or change in pronunciation, spelng and meaning To continue old spelings after words hav chanjed is as absurd as to continue old price quotations insted of following the market Englishmen ar conservativ but we hav substituted (tho only long after other nations) arabic numerals for the clumsy I, V, X L, C, D M, we hav a reasonabl and uniform way of writing music, we ar soon (again last of civilized nations) to uze international metric mesures thereby saving countless millions Practical business wil not much longer endure the costly tyranny of the $\frac{1}{2}$ educated and wholly unbusiness-like and inefficient pedant So if the intelyjent wil do their duty we shal expedite greatly the stedy growth of English toward simplicity, strength and efficiency That infinitely desirabl process can be bro t about only by pyoneer adoptions by those who hav both knowlej of the great need and curaj to lead in a cauz bound to be unpopular with those ignorant of fonology and of the vitally important reazons which hav

compeld all dictionary makers and great English skolars to declare in favor of *simpler speling*

It is sumtimes askt why if editors of the great dictionaries favor simpler speling the dictionaries themselves uze it so slytly (tho latest edition of *Webster* has 3000 more simpler forms) This anser is givn by the *Standard* The chief function of a dictionary is to record usaj not except in a limited degree to seek to create it Consequently it is not til a word or form has made its way into sumwhat common acceptance that it can look for dictionary recognition Other cases where the interest which myt be expected *seems* to be lacking on part of simpathizers ar those of authors educators and men of affairs who if left to follo their own juyment and preferences wud gladly uze simpler spelings but who ar prevented from doing so by official connections or rules of their publishers

Rules

We print belo 7 of the best known codes for convenient reference when one wishes to decide with what changes he wil start his betr speling All wil doutless uze the 12 words and most wil be glad to adopt S S B 30 words chozen with great care by leading skolars as the best small beginning for the averaj man These ar simply sampl words S S B alfabetic rules represent expert juyment of distinguisht filolojists as to changes desirabl and practicabl to recommend for erly jeneral adoption These ar followd by 18 rules which comprize an erler 1st and forming the basis of the alfabetic list larjly duplicate it but ar included here for convenience of those who wish a selection of the most important A compact dictionary list of all English words coverd by S S B rules wil be sent on application

The 5th code is our D C rules uzed in adition to S S B rules by those willing to pyoneer stil faster The 6th code a selection from U S Jeografic Board rules and the 7th the 10 joint rules of American and English filolojists ar aded for reference and to sho by repetition in different codes how closely the best authorities ar in harmony

To all governd by *reason* rather than by vizual *prejudis* the objection to *simpler speling* that it looks queer will be more than offset by the arguments both skolarly and practical in its favor while those who shrink from uzing simpler forms thru fear of being regarded illiterate may find curaj thru knowing that the movement is supported by the most eminent filologic authorities and there wil be litl danger that even the silliest of their correspondents wil bring the charj they don t kno how to spel as result of their uzing simpler forms for such common and short words as *ar, giv, hay, shal, wer* and *wil*

N E A 12 words

The National Education Association in 1898 adopted for use in all its official correspondence and printing the simplifd spelings widely known as 'the 12 words', catalog, decalog, demagog, pedagog, prolog, program, tho, altho, thoro, thorofare, thru, thruout. In 1916 it adopted rule to simplfy *ed* to *t* when so pronounst in past tenses of verbs

Simplifd Speling Board 30 words

This list was chozen with special reference to correspondence, and includes the 5 typ words, catalog, program, tho, thoro, thru, of the 12 words adopted, as noted abuv, by the National Education Association in 1898, for use in all its official publications and correspondence

ad	buro	fixt	reciet	(al)tho
addrest	catalog	giv	reciev(d)	thoro(ly, -fare, etc)
anser (d)	det	hav	shal	thru(out)
ar	engin	insted	shipt	twelv
askt	enuf	liv(d)	tel	wil
bil(d)	fil(d)	program	telephone	yu

S S B alfabetic rules

æ, œ, initial or medial. Spel e, e g esthetic, medievel, fenix, maneuver, subpena, but alumnae, strae etc

æ, œ ar now uzualy wrtn ae oe Other cases of ae, oe, medial, as in canoeist, Gaelic etc ar not affected

bt pronounst t Drop *silent b* e g det, dettor, dout, indetted, redout

Retain b, if pronounst in subtil(e)

ch pronounst like c in car. Drop *silent h* except before e i, y [or uze k], e g character, clorid(e), corus, cronic, eco, epoc, mekanic, monarc, skolar, skool, stomach, but architect, chemist, monarchy, or arkitekt, monarky

dubl consonant before e *final silent* Drop last 2 lettrs, e g bagatel, bizar, cigaret, creton, crevas, gavot, gazet, giraf, gram, program, quadril, quartet, vaudevil

dubl consonant final Reduce dubl to singl but in -ll only after a short vowel and in -ss only in monosilabls e g ad, bil, bluf, buz, clas, dol, dul, eg, glas, les, los, mes, mis, pas, pres, shal, tel, wil, but not al for all, rol for roll, *needles* for needless, etc

Retain gross, hiss, off, puss

e final silent. In the following cases drop *e*:

- a) After a consonant preceded by a short vowel stress; e.g. *bad* (*bade*), *giv*, *hav*, *liv*, *centiped* (when so pronounced)
- b) In *ar(e)*, *gon(e)*, and in *wer(e)* when not pronounced to rhyme with 'there'
- c) In the unstressed final short syllables *ide*, *ile*, *ine*, *ise*, *ite*, *ive*, pronounced as if spelled *id*, *il*, *in*, *is*, *it*, *iv*; e.g. *activ*, *bromid*, *comparativ*, *definit*, *determin*, *examin*, *favorit*, *hostil*, *infini*, *iodin*, *nativ*, *opposit*, *positiv*, *practis*, *promis*, *textil*

d) After *lv* and *rv*; e.g. *involv*, *resolv*, *twelv*, *valv*; *carv*, *curv*, *deserv*, *serv*

e) After *v* or *z* when preceded by a digraph representing a long vowel or a diphthong, e.g. *achiev*, *believ*, *freez*, *gauz*, *leav*, *sneez*

f) In *oe* final pronounced *o*; e.g. *fo*, *ho*, *ro*, *to*, *wo*

Retain *e* in inflections *-ed*, *-oes*; as *foes* not *fos*, *hoed*, not *hod*

ea pronounced as in *head* or as in *heart* Drop the silent *letr*; e.g. *bred*, *brekfast*, *hed*, *helth*, *hevy*, *insted*, *lether*, *plesure*, *welth*, *wether*; *hart*, *harty*, *harth* [except in case of derivatives where it wud clearly be bettr that pronunciation be made to correspond to root word than that spelling be made to correspond to present pronunciation; e.g. *clean*, *cleanliness*]

ed final pronounced d. When the change wil not suggest a wrong pronunciation, drop *silent e*, reducing a preceding *dubl* to a *singl* consonant, e.g. *anserd*, *cald*, *carrid*, *delayd*, *employd*, *examind*, *fil*, *followd*, *marrid*, *pleasd*, *preferd*, *robd*, *signd*, *sneezd*, *struggld*, *travel*, *worrid*, *wrongd*; but not *bribd* for *bribed*, *can* for *caned*; *changd* for *changed*, *fil* for *filed*, *prid* for *priced*, *usd* for *used*, etc

The *e* is retained only in cases where it has by convention a diacritic use, to indicate a preceding long vowel, or, in case of consonants, *e* sibilant or *g* pronounced *j*

ed final pronounced t When the change wil not suggest a wrong pronunciation, spell *t*, reducing a preceding *dubl* to a *singl* consonant, and changing *ted*, *sced*, *final*, to *st*; e.g. *askt*, *fixt*, *helpt*, *indorst*, *wisht*; *addrest*, *kist*, *past*, *shipt*, *stopt*, *stuf*; *advanst*, *announst*, *commenst*, *invoist*, *notist*; *acquiest*, *effervest*; but not *bakt* for *baked*, *deduct* or *dedust* for *deduced*, *fact* or *fast* for *faced*, *hopt* for *hoped*, etc (See note to preceding rule)

- gh pronounst f. Spel f; drop *silent lctr* of preceding digraf, e g cof, draft, enuf, laf, ruf, tuf
- gh pronounst like g in gas. Drop *silent h*, e g agast, gastly, gerkin, gost, goul
- gm final. Drop *silent g*, e g apothem, diafram, flem, paradim
- gue final after a consonant, a short vowel, or a digraf representing a long vowel or a difthong. Drop *silent ue*, e g catalog, dialog, harang, leag, sinagog; but not *rog* for rogue, *tag* for vague, etc. Tongue spel tung
- ise final pronounst as if speld ize. Spel ize; e g advertize, advize, apologize, enterprize, franchize, merchandize, rize, surprize, wize
- mb final after a short vowel. Drop *silent b*, e g born, crum, dum, lam, lum, thum; but not *com* for comb, *tom* for tomb, etc
- ou before l, pronounst like o in bold. Drop *silent u*, except in soul; e g bolder, mold, sholder
- ough final. Spel o, u, ock or up, when pronounst as if so speld; e g altho, boro, donut, furlo, tho, thoro; thru; hock; hiccup. Spel plow
- our final, with ou pronounst as a short (obscure) vowel. Drop u; e g color, favor, honor, labor
- ph pronounst f. Spel f; e g alfabet, emfasis, fantom, fonograf, fotograf, sulfur, telefone, telegraf
- re final after any consonant except c. Spel er; e g center, fiber, meter, theater; but not *lucer* for lucre, *mediocer* for mediocre, etc
- rh initial. Drop *silent h*, e g retoric, reumatism, rithm, rom (rhomb), rubarb
- sc initial pronounst as if speld s. Drop *silent c*, e g senery, sented, septer, simitar, sissors; but scatter, sponce etc
- u silent before a vowel medial. Drop u; e g bild, condit, guarantee, gard, ges, gide, gild
- y between consonants. Spel i; e g analisis, fisic, gipsy, silvan, sithe, tipe

[We uze y for sound in by and so retain y in syth, typ etc]

§ S B 18 rules

- 1 When *ed final* is pronounst t, write it simply t, where change wil not suggest incorrect pronunciation, as askt, fixt, wisht etc, reducing a preceding dubl consonant to a singl consonant, as blest, kist, dipt, dropt, stept etc, and changing -ced to -st, as advanst, pronounst, rejoist etc; but avoid misleading forms like bakt for baked, deduct or dedust for deduced etc
- 2 Change ph to f when so sounded, as alfabet, fonograf, fotograf, sulfur, telefone, telegraf etc

3 Drop *e* final after *l* and *r* as *dely*, *shelv*, *carv*, *curv*, *deserv* etc., also in the endings *-ide* *-ile* *-ine* *-ise* *-ite* *-ize* unstressed pronounst *id*, *il*, *in*, *is*, *it*, *iv*, as *bromid*, *oxid*, *hostil*, *textil*, *anilin*, *determin*, *examin*, *practis*, *promis*, *definit*, *favorit*, *opposit*, *activ*, *nativ*, *positiv* etc., and at end of *ar(e)* *hav(e)* *giv(e)* *forgiv(e)* *misgiv(e)* *liv(e)* becauz its normal use after a singl consonant is to sho that preceeding vowel is long. Hence it is retaind in such words as *bare*, *brave*, *mule*, *fine*, *wize*, *polite*, *arrive*.

4 When digraf *ea* is sounded as in *head* or *heart* uze sounded letr and omit the other as *helth*, *hevy*, *insted*, *tred*, *wether*, *plesant*, *hart*, *harth* etc.

5 Substitute *e* for digrafs and hgatures *ae*, *æ*, *oe* *æ* when not final as *esthetic*, *medieval*, *fenix* etc.

6 When *ch* is pronounst like *c* in *car* drop *h* except before *e* *i* and *y* as *caracter*, *clorid*, *corus* *cronic*, *eco*, *epoc*, *arcangel*, *mecanic*, *monarc*, *scolar*, *scool*, *stomac* etc. but *chemust*, *architect*, *monarchy* etc.

Rule 6 was later altered to uze *k* or drop *h* so we prefer *k* in *skool* *mekanic*, *arkitect* etc. for the ascender *k* looks more like *ch* than does *c* and it is the form sure to be uzed in the end.

7 Drop silent *h* from initial *rh* as *rapsody*, *reumatism*, *rubarb* etc.

8 Reduce *ll* final after a short strest vowel to *l*, as *bil*, *dol*, *drl*, *dwel*, *fil*, *ful*, *fulfil*, *shal*, *tel*, *wil*, *wilful* etc.

9 Reduce *dubl* final consonants *bb* *dd* *ff* *gg* *nn* *rr* *tt* *zz* to 1 singl consonant as *eb*, *ad*, *od*, *cuf*, *eg*, *bun*, *bur*, *whur*, *net*, *buz* etc.

10 Drop *me* from *mic* final as *gram*, *program*.

11 Drop *te* from *ette* final as *cigaret*, *coquet*, *etiquet*, *omelet*, *quartet*.

12 Drop silent *uc* final after *g*, as *catalog*, *colleag*, *dialog*, *pedagog*, *sinagog* etc. except when *g* is preceded by a singl long vowel as in *rogue*, *vague*, *vogue* etc. *Tongue* spel *tung*, *Milton's* *wav*.

13 For *ough* substitute *o*, *u*, *of*, *ock*, *out* or *up*, according to sound as *tho*, *thru*, *cof*, *enuf*, *hock*, *droust*, *huccup* etc. *Plough* spel *plow*.

14 Drop silent *b* final as *crum*, *lam*, *lum*, *num*, *thum* etc. except where omission suggests incorrect pronunciation as in *tomb*, *comb* etc.

15 Drop *c* from *ey* final unstressed pronounst like short *y* final as *abby*, *barly*, *chumny*, *donky*, *gally*, *trolly*, *vally*, *whusky* etc.

16 Substitute *z* for *s* in *-ise* final pronounst as *if* speld *ize*, as *advertize*, *civilize*, *criticize*, *merchandize*, *ize*, *wize* etc.

17 Change *re* final after any consonant except *c*, to *-er*, as *center*, *fiber*, *meter*, *theater* etc. but *lucre*, *mediocre*, not *lucer* *mediocer*.

18 Drop *u* from *our* final in words of 2 or more silabls as *ardor*, *color*, *favor*, *honor*, *labor* etc.

Aded rules used in Decimal Classification¹

Supplementing S S R's short list of most needed changes we hav selected from its longer preliminary list and from the other best authorities a few more changes which we uze in order to familiarize readers with shorter forms sure to be uzed later.

¹ See note on spelling of Ed. 4 on back of title-page.

Besides changes in S S B rules we usually

Spel cud, wud and shud for these constantly occurring words

Use silabic l, m, n and r without the unprounoust vowel e.g. *single* is not *singlee* or *singul* but *singl*, just as *prism* and *enthusiasm* ar not *prisum* and *enthusiasum*. Also omit preceding *obscure* vowel before silabic l, m, n, r. These 4 consonants partake of the nature of a vowel and so form silabls, litle was prounoust *litel*, then *litul*, then *litəl*, and now simply *litl*. Many words ar going thru this same shortning. We hav no letr for this lo unstrest vowel which most peopl ignore. The *Standard dictionary* says it is 'reduced to a slyt vocalic resonance'. As the present vowel is misleading and we hav no letr for this very obscure sound it is betr to omit it and thus shorten the word. Peopl ar les likely to mispronounce this short form than the usual spelling, e.g. *pedal* *metal* *gambol* ar not prounoust as speld but more and more exactly like *peddle* *mettle*, *gamble* which ar correctlv speld *pedl*, *metl*, *gambl*. For indicating minute shades of pronunciation in a dictionary our short spelling wud not be enuf but it is ampl for all ordinary use.

Use u for o or ou prounoust as in us, e.g. *obvius*, *famus*, *cuntry*, *cum*, *handsom*.

Use j for dg dge or g prounoust j e.g. *jujment*, *nj*, *jem* (except in proper nouns and adjectives and in old D C entries and for initial in Index).

Use y with its very common sound in *by*, *my*, *reply* etc for *eight* *igh* *ei*, *ie* *ui* and *uy*, e.g. for *height* *might* *pleistocene* *replied* *guide*, *buy* we spel *hyt*, *myt*, *plystocene*, *replyd*, *gyd*, *by*.

We often leav i—e, a, in *bite*, *ride* etc til later.

Use k for ck or ch medial or final if prounoust k, e.g. *bak*, *stok*, *skool*, *mekanic*, *epok*, *monark*.

For the present we often leav initial c, as in *character*.

Drop w from ou final prounoust o, e.g. *blo*, *flo* *sho* etc but retain in inflected forms e.g. *blows* *blown*, *blowing*.

Drop any silent letr that is fonetlly useless e.g. drop c from *fascinate*.

Drop i of dubl lettrs that serv no use e.g. *clas*, *curriculum*, *paralel*, but retain if short form wud mislead as in *huss*, off.

Sometimes we substitute s for ce when it wil not suggest wrong pronunciation, e.g. *offis*, *servis*, *prejudis*, but not *fens* for *fence*, also we sometimes substitute z for s or sc as in *becauz*, *eazy*, *uzual*, but not in inflections as in *rubs* *digs*, *egs* (s prounoust z is left in inflections becauz there ar so many and chiefly becauz the vocal organs force the z sound after voist consonants b, d, g, m, ng, v as in *rubs*, *pads*, *digs*, *egs*, *hums*, *bangs*, *givs*, etc. Try ing to pronounce s results in *rups* *fats* *diks* *eks*, *humps* *banks*, *gifs* etc.)

We leav many bad spellings where corrections as in similar words myt lead careless readers into mispronunciation, e.g. we omit c, a silly duplication of k, in *bak*, but leav it in *backer* becauz *baker* wud confuze with the bred man. With only 23 lettrs for 40 sounds we must make only more obvious needed changes and leav many inconsistencies til we hav the needed new lettrs or modifyd forms to represent the other 17.

U S Jeografic Board rules

Most changes made harmonize with rules uniformly used by U S Jeografic Board (and strongly recommended for jeneral adoption) in officially fixing propr spelings of jeografic names Sum of these rules applyd to other words ar

Pronounce vowels as in Italian and other continental European languages consonants as in English

C always soft (sounded s) Always use *k* for hard *c*, e g Korea, Dakota, never *Corea Dacotah*

We leav initial *c*, at present in *cat*, *corus*, *chronology* etc, also final *c* in *graphic* etc.

G is always hard Use *j*, never *dj* for soft *g* (*j* sound)

Ch always as in *church*, never use for *k* sound e g spel *arkitekt*, *caracter*, *corus*, *skool*

We keep *chemic* temporarily *kemic* cum *s* later

Never use *ph* for *f* sound

Always pronounce *h* when used e g *humor*, not *yumor*

Never use *y* for vowel *i* when it has its propr sound as in other languages (as in *pin*, *pique*), e g *lymf*, *lyach*, *simbol*, not *lymph* *lynch* *symbol*

Ei, with both short vowels pronounst respectively as in *met* and *pin*, sound like *ey* in *they* and *prey*, or *a* in *fate*

Omitting useless *gh* in *sleigh*, *weigh* *freight* etc leavs betr spelings

Filologists 10 joint rules

These wer made by American and English filologic associations includ ing nearly all eminent skolars in English after several years study by committees of their leading members British and Americans jointly recommended these 10 rules as in the interests of real skolarship as wel as common sense

1 *e* Drop *silent e* when fonetically useless writing *er* for *re* as in *live* (verb) *single eaten*, *rained*, *theatre* (theater)

2 *ea* Drop *a* from *ea* having sound of *e* as in *met*, e g *feather*, *leather*

3 *o* For *o* having sound of *u* in *but*, write *u* in *above* (*abuv*), *tongue* (*tung*) and the like

4 *ou* Drop *o* from *ou* having sound of *u* in *but*, in *trouble* (*trubl*), *rough* (*rur*) and the like For *our* unaccented as in *honour* write *or*, e g *honor*

5 *u*, *ue* Drop *silent u* after *g* before *a*, and in nativ English words and drop final *ue* *guard*, *guess* (*ges*) *catalogue*, *league* etc

{Do not drop *ue* when pronounst as in *argue*, *value*, nor when preceded by a singl long vowel as in *rogue*, *vague*}

6 *Dubl consonants* may be simplifd when fonetically useless e g *bailiff* (but not *hall* etc) *battle* (*batl*) *written* (*writn*) *traveller*

7 Change *d* and *ed* final to *t* when so pronounst as in *looked* (*lookt*) etc. unless the *e* affects the preceding sound as in *chafed* etc.

8 gh, ph Change *gh* and *ph* to *f* when so sounded, e g *enough* (enuf), *laughter* (lafter) etc, *phonetic* (fonetic) etc

9 s Change *s* to *z* when so sounded specially in distinctiv words and in -ise, e g *abuse* (noun) *abuze* (verb) *advertise* (advertize)

10 t Drop *t* in *tch* e g *catch*, *pitch* etc

Comments

Rule 1 givs us *l*, *m*, *n* and *r* as silabls without the useless *e* which no authority pronounces as writn, e g *singl*, *eatn*

Rules 3 and 4 giv us *u* for *o* and *ou* pronounst like *u* in *us* e g *cum*, *handsum*, *obvius*, *perilus*

Rules 3 4 9 and 10 while not in S S B short list ar fully approved It was merely choice of *which* changes to make 1st with those who havn t the curaj to make all at once When all leading skolars of the English world including editors of all great dictionaries recommend shortr forms why shud we continue to write the worse than useless letrs? Every child and forener who has lernd *rave*, *wave*, *dive*, *alive* etc is sure to pronounce *have*, *give* and *live* (verb) wrong unless we omit the useless *e*

Suggestions

We shud be glad to hav any practical suggestions but to save time and gard agens elaborate presentation of varius fine spun theories we ad that we hav wacht for many years the results of elaborate and wonderfully delicate experiments in our best syl ologic laboratories We hav red care fully all the 'arguments' that sum wil deduce for retaining certain useless letrs But these refinements while very interesting to the specialist hav no practical bearing whatever on languaj as the greatest tool with which man works Its function is to convey meaning clearly as quickly and cheaply as posibl Microscopic verbal milinery has no propr place in this vast enjin When one tels us that he has proved that *o* is usualy pronounst with a slyt vanish which cud be represented by *w* we admire his observant analysis but when he wishes to argue that we shud therefore ad *w* to *go* we hav no time for his vagaries To attach sum mark to sho every refinement which modern reserch cud establish wud result in sun thing quite too complex for daily use Melville Bell's visibl speech was a marvelous invention but only an unbalanst mind wud advocate its use for infinit demands of daily life

By evolution not revolution we shal stedly move toward tle ideal when the greatest languaj the world has yet seen wil hav 40 distinct syns for its 40 distinct sounds and becauz of its manifold advantages wil becom the common tung of the world known in adition to his vernacular by every inteljnt inhabitant

LAKE PLACID CLUB N Y

MELVIL DEWEY

Dec 10 1926

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C D " *Classification decimale*, the enlarged French translation of D C

I I B " Institut International de Bibliographie

L C " Library of Congress

N E A " National Education Association

S S B " Simplified Spelling Board (American)

S S S " Simplified Spelling Society (English)

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SUBSECTIONS

015 Of special countries

Books publisht in the country Publishers lists, current publications. Subdivided by countries like 010-099, e g 015-42, Bibliography of books publisht in England, etc Lowndes or English catalog

016 Of special subjects

Subdivided like the main classification, from 000-999; e g 016 01 Bibliography of bibliographies, 016 021, of manuscripts, 016 5, of science, 016 917, of English history, etc

See also next note

Library and sale catalogs

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heding wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject

Under 017-019, 4 means catalogs of books for sale, not publisht, by booksellers For publishers catalogs see 015

017 Clast catalogs: systematic or logical

1 Public 2 Private 3 Auction 4 Booksellers

Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book

For all forms of alfabetical subject catalogs, see 019 See 016 for Bibliographies

018 Author catalogs See 011 for Bibliographies

1 Public 2 Private 3 Auction 4 Booksellers

A volume containing both author and subject catalogs is more useful in 017 For auction catalogs of private libraries use 018 2, not 018 3 018 includes accession, chronologic and any other forms (except subject and dictionary) of catalogs of collections

019 Dictionary catalogs Alfabeticoclast, etc.

1 Public 2 Private 3 Auction 4 Booksellers

020 Library economy**SUMMARY****020-025 Science and administration of libraries in general**

- 021 Scope, founding, supporting
- 022 Bldings and grounds
- 023 Government and servis
- 024 Regulations
- 025 Administration

026-027 Special libraries and collections; history, description and management

- 026 Libraries on special subjects
- 027 General libraries

028-029 Allied subjects

- 028 Reading and aids
- 029 Literary methods

REFERENCES TO OTHER MATERIAL

- 010 Bibliography
- 090 Book rarities

020 1 Theory

- 14 Library terms definitions, etc. Discussion For dictionaries, glossaries, etc. see 020 3
- 2 Compendis 3 Dictionaries 4 Essays 5 Periodicals

- 020.6 Societies, associations, clubs, conferences
 - 61 Official institutions government departments
 - For library commissions see 021.82
 - 62 Societies not under government control
 - 621 International associations
 - 622 National " "
 - 623 State " "
 - 624 Local clubs
 - 625 Associations of special groups
 - State librarians or class in 027.506
 - Medical " " " " 026.6206
 - Sunday school " " " " 027.831
 - Library dept of N E A or class with subject in 027.3
 - .626 Mutual benefit associations
 - Or class in 023.59 if preferred
 - 627 Library association publishing boards
 - For children's library leagues see 027.6251
 - 63 Congresses conferences meetings temporary organizations
 - 65 Commercial establishments Library Bureau
 - For commercial circulars see 020.85
- .7 Education Training Library schools
 - 71 Instruction schools
 - Standards location cost etc
 - 711 Library schools
 - Use letter for each school and if des red divide like 378 A-2
 - 712 Summer schools
 - 713 Apprentis classes Training classes
 - 714 Correspondence schools
 - 715 Library institutes
 - Similar to teachers institutes local meetings with a conductor, for discussion of practical problems
 - 716 Courses in colleges and universities
 - 717 Courses in normal and high schools
 - 718
 - 719 Private schools and instruction
 - 72 Research work
 - 73
 - 74 Museums exhibits
 - Collections of illustrativ appliances blanks e.d.
 - 75
 - 76
 - 77 Special pedagogic methods
 - 78
 - 79 Competitions prizes traveling scholarships
- 8 Polygraphy
 - 81 Individual polygraphy
 - 82 Collectiv " "
 - 822 Extracts maxims anthologies
 - 83 Recipes
 - 84
 - 85 Commercial circulars
 - See also 020.65 Commercial establishments
 - 86
 - 87
 - 88 Curiosa anecdotes library humor dummy book titles
- .9 History of library economy
 - For history of libraries both public and private see 027
 - Lives of librarians are class in 920.2 To keep them with the subject use 020.92 and for fotografis of librarians 020.921 Collected lives may be separated from individual by use of the Olin booknumbers (following Index)

021 Scope, usefulness and founding of libraries

Also scope and founding of combined libraries and museums. Support, development

- .01 Arguments for libraries purpose, benefits
 - Impressiveness of libraries Discussion of free public libraries is better classed here than in 027.4
- .02 Arguments against libraries evils of libraries
 - For paternalism in library see 021.201
- .03 Progress and future of libraries
 - Reforms improvements projects plans professes library ideals
- .04 Ideals for special communities
 - e.g. what a library can do for a manufacturing community
- .1 Library as a storehouse
- .16 Character of material appropriate to library
- .2 Library as an educator; people's university
 - Material on private reading is better in 028 than in 021.2
 - While the work of a library is nearly all educational in a broad sense the relations of the library to special classes of the community outside of direct educational work thru schools and home education work are best classed with libraries for special classes in 027.6 or when a special subject predominates in 026
- 201 Paternalism in library
 - See also 024.58 Library censorship of news 024.674 Restriction of immoral books 025.217 Exclusion of immoral or ill made books
- .25 Library as a publisher
- .26 " bookseller
- .28 Work for special classes of users
 - Physicians lawyers clergymen women foreigners etc. See also 021.3
- .3 Library in relation to schools and other institutions
 - This is mainly for relations of general public libraries to school work Class a library owned by and kept at the school in 027.82 School libraries, 371.622 is only to keep all school material together under 370. Class general work for children with children's libraries in 027.625
- .31 Relations to teachers
- .32 " pupils
 - Librarian's talks to pupils either at schoolhouses or at library on use of library
- .33 Special libraries for schools
 - Specialty selected from general library and lent to school either for class or general school use Duplicates for schools
- 34
- 37 Work of individual libraries with schools
 - Alphabetized by library e.g. accounts of work with schools by Hartford public library under Hartford by Osterhout library at Wilkesbarre under Osterhout
- 38 Relations to special institutions
 - May be divided like the whole classification e.g. 021.38069 Library work with museums

021.4 Home education

This includes all services or added fields of work undertaken by the library outside the use of books For programs reports etc of home education agencies see 374 1-9

- .41 Study clubs Reading circles, etc.
- .42 Conferences, conventions, institutes, etc
- .43 Lectures
 - For extension courses see 021 44
- 44 Extension courses Lecture study
- 45 Entertainments dramatic, musical, etc.
- 46 Museums and temporary exhibits
- 47 Science museums or collections
- 48 Art galleries " "

.5 Library as a recreation

Serving refreshments e g tea

.6 Library extension and cooperation

For work done by the state see 021 8

- 61 Deliveries
 - See also 025 6 and 021 16
- .62 Branches
 - See also 021 13
- 63 Centralization Grouping of libraries
- 64 Cooperation between libraries
 - Cooperation in any special department is class with the department e g interlibrary lending 025 6
- .65 Traveling libraries
 - A collection (usually 25 to 100 volumes) either general or on one subject lent to a community library study club or other organization Book wagon
- 66 House libraries
 - A small traveling library for use of a person or household Organized at New York state library for isolated students
- .67 Home libraries
 - Small libraries for children each library kept at home of some child for use of a group under supervision of a visitor The libraries travel from group to group Organized by Boston Children's aid society
- .7 Founding Developing and maintaining interest
 - This is mainly for starting a library interesting people and bringing them to the library For most special methods of interesting those who are already readers see 025 5 and 025 6
- 71 Personal canvass visits and correspondence
- 72 Circulars
- 73 Advertizing
 - In newspapers posters street cars etc
- 74 Press Publicity
 - Discussion of use of newspaper columns (editorials articles letters new books lists etc) to secure interest
- 75 Schools and teachers
- 76 Churches and ministers Pulpit
- 77 Literary and other organizations and institutions
- 78 Lectures Public meetings and addresses
- 79 Library propaganda
 - Societies local or general for encouragement and stimulation

- 021 8 Libraries and the state Library legislation
- 81 State supervision
- 82 Library departments or commissions
 Special work done by commissions is classed by its subject. Reports of commissions if largely a summary of the public libraries of the state go in 027.4
 If important to keep all work of commissions together class their reports here
- 83 Government aid
- 831 State grants of money
- 832 Local subsidies
- 84 Gifts of books
- 841 Public documents etc
- 842 Copyright books
- 85 Exchanges
 See 025.366 for systems of exchanges management routine in individual libraries This number is for general exchanges by state or central authority
- 851 Local
- 852 Foreign
 Vattemare international exchanges Smithsonian exchanges
- 86 Privileges
- 861 Remitted duties Free importation
- 862 Free postage Franking privilege
- 863 Lower rates or special facilities Cheap library post
- 87
- 88 State or local hindrances Politics
- 89 Library legislation
 General laws for a special subject are classed with the subject e.g. law for a library commission on 021.82 law against injuring library books 024.8
- 891 National legislation
- 892 State
- 893 Local legislation (county city or village)
- 894 899 Legislation in special countries or places
 Divided like 940-999
- 9 Support, raising funds, etc
 For state aid separate from local help see 021.8
- 91 Taxes Appropriations Subsidies
- 92 Endowment
- 93 Gifts of money or books
 See also 021.84 Government gifts
- 94 Bequests
- 95 Subscriptions
- 96 Lectures Fairs Entertainments etc
 For raising money For educational purposes see 021.43-45
- 97 Membership fees

022 Library buildings

See also 727 8 Architecture For care of building see 025 9

- .1 Location, site, etc.
- .11 Location with reference to field of work
 - Accessibility to population served to other libraries educational institutions etc
- .12 Site
 - With reference to space air light, soil slope of ground etc
- .13 Provision for growth New buildings
- .14
- .15 Branches
- .16 Delivery stations
- .17 Newsrooms, reading rooms, etc
- .2 Material, protection
- .21 Material wood, brick, stone, steel, glass, etc
 - Relative fitness for library buildings See also 620 11 Strength of materials 691 Building materials
- .22
- .23
- .24 Fireproof construction
- .25 Protection against fires
 - Location and relative efficiency of apparatus hose extinguishers chemical engines standpipes etc For watchman see 025 9 See also 614 84 Fire protection
- .26 Library fires, burning of libraries
- .27 Insurance
- .28
- .29 Other dangers
 - Flood earthquake cyclone war etc
- .3 Design Plans Construction
 - Alphabet plans elevations exteriors general descriptions etc by name of library Use 31- 33 only for indexing
- .31 By kind of library
 - Divided like 027 Group plans for public libraries 022 314 in 3 subsections
 - 022 3141 Libraries under 20 000 small 10 under this number list plans of such libraries but shelve them in their alphabetic place under 022 3
 - 3142 Libraries from 20 000-100 000 medium
 - 3143 Libraries over 100 000 large
- .32 By subject
 - Divided like 026 e g under 022 3234 list plans of law libraries so that they may be readily referred to in 022 3 or in journals or reports classed elsewhere
- .33 By country
 - Divide like 930-999 and use like 022 31- 33 only for reference
- .34 Design and decoration
 - Divided like 729 as follows
- .341 Elevation, style
 - Only for general discussion class elevation of a special library under 022 3
- .342 Plan
 - Number distribution and dimensions of rooms special forms spiral, circular etc See note under 022 341

- 022 343 Artistic forms
 344 Painted decoration etc
 348 Stained glass
 349 Accessories and fixt furniture
 Include paintings statues busts etc as decoration for building Special
 library furniture bookcases loan desks etc see 022 9
- 35 Construction
 Divided like 721 Class here only discuss ones limited to library buildings
- 36
 37 Library rooms as part of other building
 38
 39 Remodeling old building
 Either other buildings (churches residences etc) for library purposes or
 remodeling a library to meet modern conditions
- 4 Storage and shelving
 For furnishing of private libraries see 645 63
- 41 Storage
 Capacity per square meter of floor or running meter of cases allowance for
 growth
- 42 Shelving round sides of room
 421 Wall cases
 422 Alcoves
 423 Galleries
- 43 Stacks
 431 Stack rooms
 Dimensions maximum width with natural light only Number of
 rooms one or several Number of floors
- 432 Arrangement of cases
 Parallel radial light open access supervisory
- 433 Movable cases
 434 Aisles
 Post on width
- 435 Flooring of stack rooms
 Solid glass open grating
- 438 Maximum floor load
- 44 Cases tiers
 441 Material wood metal glass
 442 Dimensions of case and tier height length
 See also 022 452 Dimensions of shelf
- 443 Plan of cases
 Open or closed ends and backs 1 or 2 ledges
- 444 Fixt or movable shelves
 445 Quarto and folio shelving
- 45 Shelves
 451 Material
 Wood metal glass stone sheet iron skeleton steel
- 452 Dimensions length depth thickness standard shelf
 453 Surface finish or covering
 Paint varnish cloth or leather covering
- 454 Shelf supports pins brackets

DECIMAL CLASIFICATION

- 022 46 Cases and shelves for large books lying flat
 Dimensions and design or roller shelves etc
- 47 Closed cases Doors glass screen or wood
- 48 Special cases
- 481 Hanging presses
- 482 New book cases
- 483
- 484
- 485 Cases for maps engravings etc
- 486 Cases for fotografs
- 487 Cases for lantern slides
- 5 Reading rooms
 See also 022 63 Room for special material
- 51 General reading room Central hall
- 52 Small reading rooms Study rooms
 Gallery study tables For seminar and class rooms see 022 6
- 53 Reference room
- 54 Standard library
- 56
- 57 Women's room
- 58 Children's room
- 6 Administration and special rooms
- 61 Rooms for trustees or outside organizations
- 611 For trustees
- 612 committees commission school board
- 613
- 614 For local societies
- 62 Administration rooms
 Divided like 025
- 63 Rooms for special material
 Divided like 025 7 e g 022 6332 Newsrooms
- 64 Special collections patents local history etc
- 65 Instruction rooms etc
- 651 Lecture room or hall theater concert
- 653 Seminar room class room
- 655 Museum
- 656 Art gallery
- 657 Exhibition room
- 658 Fotografic and dark room
- 659 Piano and music room

- 022 66 Recreation rooms
 661 Conversation room
 .662 Chess room
 .663 Other games
 .664 Billiards
 .665 Bowling
 .666 Gymnasium
 67
 68 Other rooms Lavatories, etc.
 For health comfort or convenience
 .681 Entrance halls and corridors
 .682 Waiting room
 683 Telephone booth or room
 .684 Lunch room
 .685 Coat room
 .686 Toilet room, lavatories, etc
 687 Garage, bicycle room, etc.
 69 Residence quarters
 .691 Librarian
 695 Janitor
 .7 Lighting
 .71 Natural lighting, windows
 For architectural side see 022 358 for stained glass see 022 348
 Position of windows size and number shape Provision for opening:
 sliding hinged or pivot sash French casement
 .72 Sky lights
 .73 Prisms
 74
 75 Artificial lights materials
 .751 Lamps, oil, etc
 752 Gas
 .753 Acetylene
 .754 Electricity
 76 Fixtures
 .762 Portable or semiportable lights
 763 Table lights
 764 Standards
 .765 Bracket lamps
 766 Chandeliers
 77 Lighting of stacks by electricity
 Fixed or movable lights
 .8 Heating and ventilation
 General hygiene of library Divided like 697

DECIMAL CLASSIFICATION

- 022 46 Cases and shelves for large books, lying flat
Divided into sliding or roller shelves etc
- 47 Closed cases Doors glass screen or wood
- 48 Special cases
- 481 Hanging presses
- 482 New book cases
- 483
- 484
- 485 Cases for maps engravings etc.
- 486 Cases for photographs
- 487 Cases for lantern slides
- 5 Reading rooms
See also 022 63 Rooms for special material
- 51 General reading room Central hall
- 52 Small reading rooms Study rooms
Galley study tables. For seminar and class rooms see 022 6
- 53 Reference room
- 54 Standard library
- 56
- 57 Women's room
- 58 Children's room
- 6 Administration and special rooms
- 61 Rooms for trustees or outside organizations
- 611 For trustees
- 012 committees commission school board
- 613
- 614 *For local societies*
- 61 Administration rooms
Divided like 025
- 63 Rooms for special material
Divided like 025 57 e.g. 022 6335 Newsrooms
- 64 Special collections patents local history etc
- 65 Instruction rooms etc
- 651 Lecture room or hall theater concert
- 653 Seminar room class room
- 655 Museum
- 656 Art gallery
- 657 Exhibition room
- 658 Photographic and dark room
- 659 Piano and music room

- 022 66 Recreation rooms
- .661 Conversation room
- .662 Chess room
- .663 Other games
- .664 Billiards
- .665 Bowling
- .666 Gymnasium
- .67
- 68 Other rooms Lavatories, etc.
For health comfort or convenience
- .681 Entrance halls and corridors
- .682 Waiting room
- .683 Telephone booth or room
- .684 Lunch room
- .685 Coat room
- .686 Toilet room, lavatories, etc.
- .687 Garage, bicycle room, etc.
- 69 Residence quarters
- .691 Librarian
- .695 Janitor
- .7 Lighting
- .71 Natural lighting, windows
For architectural side see 022 358 for stained glass see 022 348
 Position of windows size and number shape Provision for opening
 sliding hinged or pivot sash French casement
- .72 Skylights
- 73 Prisms
- 74
- 75 Artificial lights materials
- .751 Lamps, oil, etc
- 752 Gas
- .753 Acetylene
- .754 Electricity
- .76 Fixtures
- .762 Portable or semiportable lights
- 763 Table lights
- 764 Standards
- 765 Bracket lamps
- 766 Chandeliers
- 77 Lighting of stacks by electricity
Fixed or movable lights
- .8 Heating and ventilation
General hygiene of library Divided like 697

- 022.9** **Fixtures, furniture, fittings**
- .91 General furniture
 - .911 Chairs
 - .912 Tables
 - .913 Desks
 - .914 Revolving cases
 - .915 Bases
 - .916 Vertical files
 - See also 651 236 Office equipment
 - .918 Counters
 - .92 Public conveniences
 - .921 Hat racks
 - .922 Umbrella stands
 - .923 Clocks
 - .924 Bulletin boards
 - .93 Furniture for exhibiting or using books, pictures, etc.
 - .931 Exhibition cases, fixed or movable
 - .932 Wing frames
 - .933 Easels
 - .934 Reference book holders
 - .935 Magazine and newspaper racks, files, etc
 - .94 Appliances for getting or carrying books or messages
 - .941 Ladders, stepladders
 - .942 Book trucks
 - .943 Carrying trays
 - .944 Mechanical carriers
 - See also 621 867 Conveyers Telferage
 - .945 Book lifts
 - .946 Pneumatic tubes
 - .947 Speaking tubes
 - .948 Interdepartment telephones
 - See also 621 3853 Intercommunicating telephones
 - .95 Elevators
 - For carrying persons goods etc See also 621 877 Class here only discussion of them for library use For book lifts see 022 945
 - .96 Floor coverings
 - For permanent flooring see 022 126
 - .961 Linoleum, corticine
 - .962 Matting
 - .963 Carpets
 - .964 Rugs
 - .965 Door mats: rubber, wire, etc.
 - .97
 - .98
 - .99 Desk fittings, etc
 - Divided like 651 465

023 Government and servis Personnel

For government of special kinds of libraries see 026 and 027

.1 Constitution and bylaws for governing board

Charters Local ordinances etc

2 Appointment and tenure of officers under governing board

State or local civil service. Special library examinations Promotions Probationary appointments Temporary or limited period appointments. Appointments by executive officer

3 Governing board

Trustees committees directors regents etc

31 Method of selection

Election appointment ex officio trustees close corporation like self-perpetuating body

32 Number

33 Qualifications

34 Women as trustees

35 Powers and duties

36 Financial administration

37

38 Time and place of meetings

4 Executiv Consulting librarian Library expert

For appointment see 023.2 See also 023.5-9 which apply to executive as well as to staff

43 Responsibilities and privileges

5 Staff

Including all subordinate positions For method of appointment see 023.2

51 Qualifications

52 Personality Character Moral and social equipment

53 Mental equipment Natural ability

531 General education

532 Professional education Training

See also 020.7 Library schools

535 Reading of librarians

54 Physical equipment Health Exercise

55 Staff meetings Relations to head

56 Women as librarians

Including difference in salaries of men and women

57 Wornes and trials

58 Longevity

59 Library benefit associations

See also 020.626

DECIMAL CLASSIFICATION

023 6	Daily hours	Holidays and vacations
61	Daily hours	
611	Records	Record clock
612	Punctuality	Tardiness
62	Hours for meals	Lunch room
	See also 022 6 Special rooms	
63	Special work	
631	Evening	
632	Sunday	
633	Holiday	
64	Work by hour	Overtime extra hours
641	Making up lost time	
642	Payment for overtime	
643	Effect of overstrain on employees	
644	" "	on servis
65	Holidays	
651	Weekly half holiday	
652	Legal holidays	
66	Vacations	
661	Time of year	
662	Length	
663	Continuous or in instalments	
664	Sabbatic year	
67	Absences for sickness or other causes	
	See also 023 641 Making up lost time	
68	Attendance at meetings	
681	International	
682	National	
683	State	
684	Local	
7	Titles and duties	
701	Specialization	Monotony Change of work
70	Understudies	
71	Executive Director	
	Chief or principal librarian keeper etc	
72	Department division or section heads	
	Librarians sub librarians chiefs heads	
73	Reference staff or faculty	
	Librarians of special subjects	
74	Assistants	Catalogers

- 023 75 Pupil assistants, apprentices, volunteers
 Paid mainly by instruction
- .76 Clerical servis
- .761 Stenografers
- .762 Typewriters
- .763 Clerks
- .77 Mechanic servis
- .771 Binders
- .772 Electricians
- .773 Carpenters
- .774 Other mechanics
- .78 Pages, messengers, ushers, runners
- .79 Janitor servis
- .791 Janitor
- .792 Watchman
- .793 Elevatormen
- .794 Attendants, in coat room, etc.
- .795 Porters and packers
- .796 Cleaners, etc
- .8 Remuneration: salaries, pensions
 Divided like 023 7 See 023 56 for difference between salaries of men and women
- .9 Rules for staf Codes
 Made by trustees or librarian
 For punctuality see 023 612 For absences or sick leave see 023 63
- .91 Conversation
- .92 Personal calls or work
- .93 Soliciting money, subscriptions, contributions
- .94 Respect and care for library property
- .95 Uniforms
- .96 Curtesy Indifference
 See also 174 Business ethics 177 1 Curtesy (social ethics)
- 024 Rules for readers
 For reference and circulating departments
- .1 Readers qualifications
- .11 Age
- .12 Residence
- .13 Relations to community
 Membership in society club or institution official position profession, etc.
- .14 Responsibility
 Reference guarantor money deposit
- .15 Registration
- .16 " for limited period

- 024 2 Fees Assessments Free use
- 21 Membership fees
 Mercantile libraries atheneums
- 22 Book fees
 Circulating library fees For fines see 024 0
- 23 Fees for readers card etc
 For petty expenses to guard against wastefulness
- 24
- 25 Extra library fees e.g. college library
- 26 Public library fee
 For subscription departments see 024 78
- 27
- 28 Free use
- 3 Hours of opening
- 31 Number of hours
- 32 Time of day morning afternoon
- 33 Evening opening
- 34 All night "
- 35 Intermission for meals
 Closing library during lunch dinner or supper hours
- 36 Hours for reference and circulating departments
- 37 Cooperation of local libraries
 Agreement on hours so that some library shall always be open
- 4 Days of opening or closing
- 41 Sunday
- 42 Special religious days
- 43 Holidays
- 44 Vacation summer
- 45 Inventory Examination
 Closing for annual examination of library
- 46 Special occasions
 Closing for recataloguing or rearrangement public calamity deaths
- 47 Closing for epidemics
- 5 Reference use
- 51 Reading room rules
- 52 Decorum in library
 Unwelcome visitors library cranks
- 53 Ladies in reading room
 For women's separate reading room see 022 57
- 54 Access to catalogs
 For access to library see 023 43
- 55 Open reference shelves
- 56 Open shelves in general
- 57 Restricted or selected access to shelves
 Restriction as to persons or subjects
- 58 Library censorship of news
 Obliteration or suppression of reading room copies of newspaper reports
 tending to lower morals e.g. betting and racing news reports of crime
 criminal trials See also 027 901 Paternalism

- 024 6 Home use Loans
- 61 Number of books
- 611 Two book system
- 612 Summer vacation cards
- 62 Time 7-day books new periodicals
- 63 Delinquencies Fines
 For injuries etc see 024 8
- 64 Renewals
 Extension of loans by library
- 65 Relending
 Lending by borrowers
- 66 Reservations
- 67 Restricted books
- 671 Reference
- 672 Rare or costly
- 673 Medical
- 674 Of immoral tendency Library inferno
 See also 021 0 Paternalism
- 68 Interlibrary loans
- 681 International loans
- 7 Special privileges
- 71 Extra books Teachers cards
- 72 Extra time
- 73 Remission of fines Excuses
- 74 Favorable classes trustees faculty staff
- 77 Lending restricted books
- 78 Subscription department
 Novels and popular new books lent for fee Extra copies for rent in public
 (tax supported) libraries
- 8 Injuries Abuses
- 81 Defacements
 Marks corrections notes and comments
- 82 Mutilation
- 83 Removal of plates maps etc
- 84 Mutilating newspapers
- 85 Losses by readers payment
- 86 Thefts
- 87 Restitutions
- 88
- 89 Prevention of abuse
 Methods of preventing injury and inducing better care of books For
 children and library usage see 027 525
- 9 Other rules

025 Administration Departments

SUMMARY

Supervision	025 1	Executiv
Acquisition	2	Access on
Utilization	3	Catalog
	4	Classification
	5	Reference
	6	Loan
Preservation	7	Binding
	8	Shelf
	9	Care of blding

025 is for the librarian's part. The trustees build and furnish (022) make rules for government and service (023) and regulations for readers (024) but the administration involves questions of its own which however are closely allied to topics in 021-024 and elsewhere e.g. the librarian must know his side of binding and be able to give proper directions and supervision but need not know all the details of the binder's craft (586)

Administration includes 1 Supervision 2 Acquisition 3-6 Utilization 7-9 Preservation. I.e. the librarian's duty to books is to Get Use Keep

.I Executiv General supervision

II Finances

See also 025 36 Financial administration of governing board

111 Invested funds endowments, gifts

See also 021 9 Support

112 Appropriations local or state

See also 021 8 Libraries and the state

113 Other money received

Fees assessments fines payments for special services and investigations etc

114 Accounts receipts and expenses bookkeeping

115 Salary payments Staff payrolls

See also 025 8 Salaries

116 Expenses fittings supplies and incidentals

Class with a department supplies peculiar to it their kind quality cost etc e.g. catalog cards with 025 3 For bookbuying see 025 2

117

118 Cost of preparing books for shelves

12 Printing and publications

Both preparation of material and details of printing including setting type etc

121 Blanks and forms stationery

If relating to a special department class with it e.g. bookplates in 025 2

122 Publications

123 Reports and statistics

See also 027

124 Catalogs

See also 017 019 For cataloging see 025 3

125 Bulletins

Frequency advertisements etc See also 017 019 For preparation of book lists see 025 3 for newspaper publication of new book lists see 021 74

126 Library magazine or paper

127

128

129 Duplicating by neostyle carbon, etc

For machines and processes see 652 Class here discussion of fitness for library applications only

- 025 15 Correspondence
- .151 Stationery
Material weight size and headings
- .152 Stenographers, dictation machines
- .153 Typewriters
- .154 Copiers
Roller press carbons portable See also 025 159
- .156 Letter files
See 652 5 for methods
- 17 Treatment of special material
For general discussions of arrangement care and use Class special work under each department e.g. cataloging of incunabula in 025 3
- 171 Manuscripts, archives and rarities
Divided like 090
- .172 Pamphlets
- .173 Serials documents, etc
- 1 Periodicals, magazines, etc.
- 2 Newspapers
- 3 Annual reports
- 4 Documents, national, state and local
- .174 Broad­sides
- .175 Clippings
- 176 Maps and charts
- 177 Art material
Engravings fotografis drawings lantern slides
- .178 Music scores rolls, etc
- .179 Museum material
- .18 Administration of individual libraries
Alphabet by name of library For administration of special kinds of libraries. See 026 and 027

025.2 Accession Acquisition

SUMMARY

- 025 21 The library and its selection
- 22 Methods of acquisition
- 23 Ordering and receiving
- 24 Accessioning
- 25 Marks of ownership
- 26 Duplicate and exchange department
- 29 Special material

.21 The library and its selection

.211 What? Proper proportion of subjects

Division of funds endowments for special subjects accession statistics

.212 Specialization by libraries

Division of subjects among local libraries See also 021 64 Cooperation
For collections on special subjects economics science etc see
026

.213

.214 Who? Selectors of books

Trustees or trustee committee librarian staff committee book board
advisory committee from outside experts central body (bibliographic
bureau state commission etc)

.215 How? Methods of selection

Recommendations by readers personal examination visits to book
stores books sent on approval printed reviews first selection for new
library Want lists books under consideration

For lists of best books A L A catalog annual lists etc see 026

For principles of selection and choice of editions see 028 2

For selection for special classes see 027 6 027 8 028 5

.216 Buying fiction

Duplicating popular fiction extra copies of best fiction

.217 Rejection exclusion censorship

Pernicious literature badly made books yellow journals See also
021 201 Paternalism

.218 Weeding out sifting

Separating books no longer of service to library For withdrawal book
see 025 249

22 Methods of acquisition

.221 Buying new books

Local bookstore book center general agent publishers subscription
agent bids on special lists foreign books thru home or American agent
thru foreign agent See also special material 025 29

.222 Prices Discounts

Net books For free importation see 021 86v

.223 Buying old books

Secondhand catalogs remainders trade sales dealers in old books,
bookstalls value of old books

.224 Auctions

For auction catalogs see 027-029

.225 Buying libraries in block

.226 Exchange

.227 Gifts

Request blanks and records gift lists acknowledgments privately
printed books propagandist books

For government documents and copyright books see 021 84

See 025 268 for gifts from library to library

- 025 23 Ordering and receiving
 For gifts see 025 227 for exchanges see 025 266
- 231 Ordering
 Order slips or lists order books or sheets copies of orders order index
 order numbers
- 232 Examination for duplicates and verification
 Misspelled names changed titles separates
- 233 Reception and opening
 Express mail etc frequency of shipments free delivery
- 234 Checking bills
 Prices and amounts
- 235 Collation
- 236 Receipt index
- 24 Accession book
- 241 Importance of record
 Accession book vs shelf list etc
- 242 Printed headings Items Fullness of entries
- 243 Accession number volume work or invoice
- 244 Accession stamp
- 249 Withdrawal book
- 25 Ownership marks
- 251 Private marks
- 252 Stamping
 Ink embossing or perforating stamp Table and foot power
- 253 Book plates Plating
 See also 097
- 254 Library name on outside of book
 Gilding or impressing name of library on back or covers
- 255 Card pockets
- 26 Duplicate and exchange departments
- 261 Duplicates
 Definition rules and decisions marking stamp plate etc
- 262 Duplicates of institution's own publications
 Either of library or larger organization including it e.g. duplicate Columbia
 University publication Columbia University library stock on hand
- 263 Cataloging
- 264 Arrangement
- 265 Sale for cash
- 266 Exchange
 General exchange of publications exchange accounts
- 267 Clearing house for duplicates
 See also 021 833 Vattermeyer international exchanges Smithsonian ex-
 changes
- 268 Gifts to other libraries
- 269 Deposits
 By large libraries in small or in hospitals persons etc also deposits in
 great collections by individuals or small libraries See also 025 218
- 29 Special material
 Divided like 025 17

025 3

Catalog

For printed catalogs themselves see 017-019 This is for *cataloging*
 Printed manuscript or card Author subject title class Dictionary or
 combined Cooperativ rules Size notation Cooperativ cataloging
 Duplicated titles print or photography Mechanical accessories cards,
 cases and fittings drawers trays blocks checks guides labels

.4

Classification

For philosophic classification of knowledge see 212 Methodology This is
 for practical classing of books pamphlets and notes rather than theo-
 retic speculation
 On shelves in catalogs in dictionary catalogs Systems of notation fig-
 ures letters symbols combined Importance and advantages Diffi-
 culties Close vs broad classing Mnemonics features Basis of division
 Coordination of special subjects

.5

Reference Reference books Aids to readers

See 028 for general discussion of reading and aids This is limited to
 library administration

.6

Loan

marks pockets
 treasury loans
 -tc

.7

Binding and repair

See also 686 Bookbinding
 Materials durability tight vs spring backs sewing color lettering Paper
 covers and temporary bindets Restoring mending cleaning and oiling

.8

Shelf

See also 022.4 Shelving
 Arrangement Shelf numbers Shelf and book labels First and relative
 locations Sizes of shelves Arrangement and preservation of public
 documents pamphlets papers manuscripts maps drawings and plans
 music broadsides clippings Chand books Injuries heat gas insects
 Stock taking Shelf lists

.9

Building care, cleaning, safety Janitor Police

See 023 for building and fittings This is janitor's department

026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars and every thing about the library not more required in preceding sections. Subdivided by adding clas number of subject, e g a Medical library is 026 61 a Ches library, 026 7941, but the *catalog* of a ches library is 016 7941. Blank etc from any library go under subjects in 025, as more used in studying topics but, if history of individual libraries is specialized, duplicates ar also desirable under the library in 026-7, thus making a complete set of its publications

027 General libraries

This includes both circulating and reference i e all not limited to special subjects

Chs here histories, reports statistics bulletins, handbooks, circulars and everything about the library not more required in preceding sections

Subdivided if wisht (except 027 6 and 027 8) by countries like 930-999, e g 027 744 College libraries in France Or if wisht, group all by geografic location, using 0 in 4th place to indicate no division by *kinds* of libraries e g 027 044 Libraries of France, 027 07471 Libraries of N Y. city

A private library is still clast 027 1, after it has been sold or merged is a public library But a society library changed to a free public should take 027 4 for all publications after the change

.1 Private and family

.2 Proprietary, society, club and Atheneum

2 is limited to libraries that ar semiprivate, requiring an election for admission while 3 includes all open to any one on payment of a fee It is the difference between a club and a hotel 3 is for libraries run as a business A mercantile library even tho it has endowments, if open without individual election goes in 3 as a subsidized public subscription library Many private subscription libraries go in .2

.3 Subscription Circulating

Mudie s Booklovers, etc.

DECIMAL CLASIFICATION

- 027 4 **Free public Rate supported Endowd**
 Public library commissions See also 331 85 Libraries in intellectual life of
 laboring classes and 027 last note
- .42 **Special kinds of public libraries**
- 422 **According to area served**
 For national and state libraries see 027 5 see also 021 6 Library exten-
 sion 021 65 Traveling libraries
- 2 **Urban, city**
- 3 **Rural, country**
 Include here general discussions of village libraries
- 4 **County**
- 5 **Township**
 New England 'town libraries
- 6 **District School district**
 See also 027 8 School libraries
- 423 **According to means of support**
 See also 021 9 Library support
- 2 **Rate or tax supported**
- 3 **Endowd**
- 424 **According to function**
- 2 **Circulating**
 Free circulating libraries for circulating libraries charging rental or
 fee see 027 3 See also 024 6 Rules for home use 025 6 Loan depart-
 ment administration
- 3 **Reference**
 See also 024 5 Rules for reference use 025 5 Reference department
 administration

- 027 5 **State and government**
 .6 **For special classes**
 See also 021 28 Library's educational work for special classes of users 026
 Libraries on special subjects A workmen's library of books on engineering is
 class 026 62 not here as the subject is more useful than the class of readers
- 61 **General questions**
- 62 **Libraries conducted with reference to age and sex**
- 621 **General questions**
- 622 **Libraries for adults**
 For religious organization libraries for adults see 027 674
- 623 **Men**
 For religious organization libraries for men see 0 7 6742
- 624 **Women**
 For women's room see 022 57 For religious organization libraries for
 women see 027 6 43
- 625 **Children's and young people's libraries and departments**
 Library work with children. See also 021 3 Library in relation to
 schools and the young 021 67 Home libraries 022 58 Children's room
 027 675 Religious organization libraries for young people 027 8 School
 libraries Sunday-school libraries 028 5 Reading of young
- 1 **General questions Method**
- 12 **Instruction in use of books and catalog**
- 13 **Discipline**
- 15 **Story telling**
- 626 **Groups by age**
 Future book group
- 627 **Boys libraries**
 Boy scout libraries, etc. For religious organization libraries for boys
 see 0 7 6752
- 628 **Girls libraries**
 Campfire girls libraries, etc. For religious organization libraries for
 girls see 027 6753
- 63 **Forenere and special racial groups**
 For library's educational work for forenere see 021 28
- 632 **According to language**
 Divide like 400 preferably using country divisions (027 633 639) when
 possible
- 633-639 **According to country of origin**
 Divide like 930-999 as to libraries for negroe 027 636 Divide by
 country when possible using language divisions (027 632) for groups
 like Semitic Aryan Teutonic English etc
- 64 **Industrial classes Workmen's libraries**
 For discussion of library in relation to intellectual life of laboring classes
 see 331 85
- 642 **Factory**
- 643 **Railroad**
- 644 **Marine Ship libraries**
 Merchant marine libraries Library work with sailors Libraries in sailors
 homes For warship libraries and library work with navy see 027 653

- 027 65 Government units
 For general national and state libraries see 027 5 For such government department libraries as are primarily libraries on special subjects see 026
- .652 Army military post libraries, camp libraries
 Work with soldiers See also 940 477 Welfare work in World war
- .653 Navy warships, navyyards
 For merchant ship libraries see 027 644
- .655 Police stations
- .656 Fire stations
 Class here libraries for firemen even when the fire organizations are voluntary
- .657 Lifesaving service stations, lighthouses Bridge tenders
- .66 Welfare institutions Work for the afflicted
- .662 Hospitals and asylums
- 1 General questions
- 2 General hospitals Sanitariums
- 3 Insane Feeble-minded
- 4 Deaf Dumb
- 5 Poorhouses
- 6 Libraries for aged, infirm, invalids
- .663 Blind
 Library work for blind reading for blind types
- .664 Reformatories
- .665 Prisons
- .67 Religious organizations
 See also 026 2 Religious libraries 027 83 Sunday school and parish libraries
- .672 Monastic
- .673 Religious societies
 Salvation army
- .674 Adults
- 2 Men
 See also 207 3532 Library as part of Y M C A
- 3 Women
 See also 267 5532 Library as part of Y W C A
- .675 Young people
- 2 Boys
- 3 Girls
- .678 Sectarian (Christian)
 Not limited as to subject but selected with sectarian bias Divide like 280
- .679 Non-Christian religious organizations
 Divide like 290
- .68 Social groups
 Social clubs hotels ocean liners For society and club libraries where the library is the primary consideration see 027 2 027 68 is for libraries conducted incidentally (with or without charge) in connection with social clubs etc
- .69 Other
 Class under 027 62-68 libraries covered by those general heads even if not specifically mentioned Class here only those libraries not otherwise provided for Divide like main classification
- .7 College university
 For libraries of professional and technical schools see 026

LIBRARY ECONOMY

- 027.8 **School Sundayschool Parish**
- .81 **General questions**
- 82 **School libraries**
 See also 021.3 Library work in relation to schools and the young, 027.625
 Children's libraries 027.7 College and university libraries 028.5 Reading
 of young 371.64 Libraries as school equipment
- 822 **Types**
 - 2 **Elementary**
 - 22 **Kindergarten**
 - 3 **Secondary**
 - 4 **Traveling**
 See also 021.65 Traveling libraries in general
- 823-829 **In special countries**
 Divide like 930-999
- 83 **Sundayschool and parish libraries, etc**
- 831 **Sundayschool libraries**
 See also 268.233 Library as part of Sundayschool equipment, 268.336
 Librarian as part of Sundayschool personnel
- 832 **Parish or parochial libraries**
 See also 257 Parish educational work
- 833-839 **In special countries**
 Divide like 930-999
- .9 **Free reading rooms and newsrooms**
 See also 022.17 Location of branch newsrooms and reading rooms, 022.5 Reading
 rooms (under Library buildings) 024.5 Rules for reference use 025.5 Administration
 of reference department
- .92 **Reading rooms**
 See also 331.85 Reading rooms in relation to intellectual life of laboring classes
- 922 **Newsrooms**
 See also 022.6337 Newsrooms under Library buildings
- 93-99 **In special countries**
 Divide like 930-999

028 Reading and aids

See 374 1-2 Self education by private reading and reading circles

.1 Methods

Tasting, skipping, reviewing, making synopses, abstracts, extracts and index rerums (see 029), book marking

.2 Choice of editions

Annotations, indexes, paper, type

.3 Courses of reading

Both discussion and lists of books

For sets of books representing prescribed courses for general culture e.g. *Harvard classics* see 080

.4 Fiction Novel reading

Discuss on Short selected lists may be put here tho all fiction lists are better together in 016 823 (on German libraries 016 833 French libraries 016 843 etc)

.5 Reading of young Juvenils

Both discussion and lists of books

.6 Professorships of books and reading

Lectures Stimulus and guidance in schools

.7 Use of reference books

.8 Aids to readers

Guidance printed or personal See also 028 6 and 025 3

.9 Character of reading in libraries

029 Literary methods and laborsavers

Much in 025 and 028 belongs equally under 029 in its full meaning but practical convenience is best served by referring to 025 and 028 instead of repeating the heads

.07 Study and teaching

.1 Methods

Exact reference standard sizes use of colors thought study intercalation or card system (see 025 3) cooperativ methods records vs memory etc See 653 Abbreviations and shorthand 754 1 Mnemonics 025 4 Classification

1 is for what one *learns* how to do by an improved *method*

2 is for articles which one must make or buy in order to utilize Where a pamphlet covers both appliance and method class with predominant feature

.2 Appliances Laborsaving tools and devices

See also 651 Most literary laborsaving devices go also under 651 Office equipment and methods and are best kept together there e.g. all office and study furniture fittings and supplies cases bookholders reading desks pigeonholes files etc For pamphlet map etc. cases see 025 8 for binders 025 7

.3 Clippings Scrapbooks or files

See also Files 651 5

.4 Notebooks, notetaking, abstracting, etc.

.5 Indexing Index rerums Printed and patent indexes

For alphabeting and transliteration see 025 3

.6 Authorship Writing for press Copy and proof

See also 653 25 Proofreading 653 52 Relations to publishers

.7

.8

.9

030 General cyclopedias

Subdivided according to language

031 American

Limitd to cyclopedias in English published in North America

032 English

All cyclopedias in English published outside North America

033-036 Divided by language like 430-460

E.g. 033 German 033.931 Dutch 034 French 034.99 Catalan But class Scandinavian cyclopedias in 038

037 Russian

.8 Other Slavic or Slavonic

Divided like 491.8 e.g. 037.85 Polish

.9 Ukrainian Ruthenian

038 Scandinavian

6-82 divided like 439.6-82, e.g. 038.82 Norwegian

039 Other

Divided by language like 430-499 except for those specially provided for above e.g. 039.89 Modern Greek 039.94511 Hungarian

040 General collected essays

Subdivided like 030

050 General periodicals Magazines

Subdivided like 030

060 General learned societies

Subdivided according to country

Academies of Paris Berlin Vienna etc Societies on a specific subject go with that subject e.g. 550.6 Geologic societies See also 360 Institutions and associations for philanthropic political social and similar organizations

061-067 divided like 071-077

E.g. 061.44 Massachusetts learned societies 061.2 Mexican 063.8 Polish 066.9 Portuguese

068 Other

Divided geographically like 030-999 except for those specially provided for above e.g. 068.481 Norwegian, 068.82 Argentine

069 Museums Museum economy

The following classification is somewhat reduced from the schedules prepared by a committee of the American Association of Museums consisting of L V Coleman chairman E O Hovey H W Kent and H L Madison Develop primarily for museum use many subjects are included in the full schedule (for which see eds. 12 and 13) for which provision is made elsewhere in the main classification For these it is recommended that in general the other number be used (e.g. see note under 069 018) For complete list of form divisions see Table 2 following Relative index

- 01 Theory Objectives, ideals, scope, etc
 - 011 may be divided like 01 in Table 2 following Relative index e.g. 069 0111 General purpose of museums
- 012 Museums from standpoint of support and control
- 013 Public
 - 016 Elementary and secondary
- 014 Association Society school Children's
- 015 College University
 - 017 Private
- 018 Museums from standpoint of field covered
 - Including discussion of possible range of museum subjects and theoretic discussions on general museums covering several subjects e.g. science art and history Material on museums devoted to a single subject may also be classed here subdividing 018 like the whole classification e.g. 069 0185 Science museums but in general prefer specific subject e.g. 507 4 Science museums
- 019 Museums from other standpoints
 - According to physical character outdoor museums expositions etc

SUMMARY

- 069 1 Educational and recreational functions
 - 2 Buildings
 - 3 Equipment Furnishings Supplies
 - 4 Collecting Preparing Repairing Restoring
 - 5 Collections Exhibits
 - 6 Administration
 - 7 Publications and publishing
 - 8 Research
- 069 1 Educational and recreational functions
 - Including museum functions in Americanization conservation etc
- 107 Principles of museum education
 - Museum work with children school service adult education
- 13 Lending objects collections exhibits
 - For scope and character of lending collections see 069 56
- 14 Lending slides films projectors
 - Includes lending of written lectures to accompany slides also sale and exchange of slides and films For scope of slide and film collections see 069 57

Museum instruction

Information bureos lectures, story hours museum games
study clubs field instruction training teachers in use of
museum facilities etc.

16

Music in museums**18 Publicity****.2 Buildings**

Clas here general works on museum buildings and works includ-
ing descriptions and pictures of a considerable number of build-
ings Descriptions and pictures of an individual museum ar best
clast with history of that museum in 069 09

21

Location site improvement of grounds etc

22

Architectural design and decoration

23

Materials Construction

Including preservation and repair Foundations walls
roofs floors ceilings windows and doors stairs fire escapes
etc

24

Construction of special rooms

Includ ng museum rooms in schools libraries etc May be
alfabeted by rooms

28

Reconstruction

Remodeling catastrofies etc

29

Service construction

Including service machinery fixtures and fittings. Plumbing
lighting heating and air conditioning power construction
fire protection 1st aid cabinets etc For fixtures for specific
rooms see 069 36

3

Equipment Furnishings Supplies

For service equipment see 069 29

31

Exhibit cases Screens Pedestals

Cases etc for special purposes should be clast with purpose

32

Exhibit apparatus

Project on viewing and sound apparatus Lanterns phono-
graphs etc

33

Furnishings Fittings Furniture

Includ ng desk fittings tools implements storage containers
museum glas vare etc When limited to spec al purpose clas
with purpose furnishings for special rooms clas in 069 36

34

Supplies General materials

Cleaning supplies and use fuel stationery etc Materials
for general use Wood stone metal paper glas chemicals
glues etc

36

Equipment of special rooms

May be alfabeted by rooms

4

Collecting Preparing Repairing Restoring

This section is for all methods special equipment and materials
involv'd in preparing objects and specimens for exhibit or for
incorporation into a study collection Since preparation of
certain kinds of material is begun in the field it is impossible
to divorce the collecting from the preparation of these On the
other hand much material specially in art is collected by
methods treated under 069 51 Acquisition, so only its getting
redy (restorat on and repair) is included here The tecnc
of excavating (069 419) however applies in part to works of
art

DECIMAL CLASSIFICATION

- 069 41 Modeling Molding Casting Coloring
Including materials used e.g. clay wax plaster glas and
other plastics fabrics etc
- 411 Modeling Pattern making 415 Coloring
- 412 Molding 419 Excavating
- 413 Casting
- 414 Electroplate reproduction
- 42 Construction of models
Architectural ethnographic, etc Models of caves animals
plants etc Relief maps etc
- 43 Construction of groups
Composition layout field work backgrounds and foregrounds
case and lighting etc
- 44 Expeditions
Equipment supplies personnel transportation relations with
natives guides regional information protection of materials
packing etc
- 45- 49 Collection and treatment of special materials
- 45 Science materials
- 451- 459 may be used corresponding to the divisions 51- 59 of 500 Pure sciences
e.g. 069 455 Geologic materials rocks minerals Use 069 4592
Invertebrates 069 4596 Vertebrates
- 46 Industrial and commercial materials
- 47 Art materials
- 471- 476 may be used corresponding to the divisions 71-76 of 700 Fine arts
e.g. 069 473 Sculpture ceramic materials
- 477 Textils Weaving
- 478 Wood and metal work
- 479 Other art objects
- 48 Literary material 49 History material
- 5 Collections Exhibits
- 51 Acquisition Disposal
Policy manner of selection and disposal terms of gift or
bequest purchases sales dealers prices terms of loan
exchanges etc
- 52 Registration and recording system
Accession record catalog index donor list etc
- 53 Exhibition
Discussion only Principles of visual presentation arrange-
ment of exhibits museum fatigue Originals v reproductions
scope classification correlation of exhibits temporary
exhibits installation methods and devices labels and label-
ing public catalogs guides gallery leaflets etc
- 54 Specific museum material
For data concerning museum objects themselves whether
exhibited or in reserv including thefts forgeries etc May
be divided by subject like the whole classification e.g.
069 51913 Data on antiquities as museum objects

- 069 55 Study collections scope, arrangement, housing
Classification, tagging, shelving, storage, etc
- 56 Lending collections scope, arrangement, housing
- 57 Filed collections and materials
Including all information concerning material and accessories which ordinarily are filed for preservation Photographs, negatives, slides, films, maps, broadsides, etc
- 58 Library
.581 and .583-.585 may be used and subdivided like 021 and 023-025 of Library economy so far as applicable, e.g. 069 581 Scope of museum library, 069 5852 Acquisition of books Class material on construction of library room in 069 24, on equipment in 069 36
- .6 Administration
- .61 Organization
including discussions of questions involved in founding and in relationship to federal, state or local government in so far as control is concerned various forms of organization, etc Charters, constitutions, bylaws membership, etc
- .62 Principles Regulations Ethics
Including published codes of rules regulations for staff members, visitors, patrons, students etc
- .63 Personnel
Professional requirements, qualifications and duties appointment, hours, vacations, etc. Governing board, staff, women's auxiliary, etc
- 64 Finance
Value of collections and other property income, expenses, plant (including agreements with government for use of public land and buildings), endowment, accounting and budgeting employees welfare, pensions, employee clubs, etc.
- .65 Office methods
Filing, correspondence statistics, etc
- 66 Care of buildings and grounds
- 67 Branch museums Outdoor exhibits
For outdoor museums see 069 019 See also 069 32 for registry of outside objects
- 68 Cooperativ relations
Intermuseum relations relations with other institutions, groups etc with schools business world etc
- .7 Publications and publishing
For discussions of publication and for complete file of an institution's own publications authorship publishing arrangements, printing, binding distribution storage, etc *Also for other museum publications when classed as such*, for use as format, sample publications etc. When dealing with special subject they are preferably classed under subject, e.g. museum reports in 069 09
- .8 Research

070 Journalism General newspapers

See also 070.3 Clippings Clipping bureaus
 179.1 Morals of the press
 323.445 Liberty of the press (political science)
 351.751 Regulation of the press (government administration)
 396.507 Women in journalism
 655 Printing Publishing Copyright
 741 Cartoons Caricatures

- .1 Utility Theories Relations to other professions
 - For government relations see 070.15
- .11 Standards Ethics Influence Responsibility
 - General and higher view educativ influence, for degradation of the press
 see 070.15
- .12 Endowed newspapers
 - Independence of popularity
- .13 Liberty of the press Censorship
 - Individual privacy diplomatic secrets seditious or anarchic influence
 See also political science 323.445 Freedom of the press
- .14 War censorship
- .15 Subservience to special interests
 - Use by sectarian, partisan or private interests Government relations and
 influence subsidies reptil fund
- .16 Sensational or 'yellow' journalism
 - Fictitious news scandals murder and divorce trials blackmail bribes
- .17
- .18 Anonymous journals
 - Those with editors or place of publication unknown
- .19 Other general questions
 - Comparison of field importance and influence of newspaper periodical and
 book
- .2 Ownership and control
- .22 Newspaper names
- .23 Location
 - .232 Metropolitan Large city
 - .234 Provincial Small city
 - .236 Rural or village
- .26 Syndicates Patent insiders
- .3 Business management
- .31 Staf and workmen
 - .311 Offis staf
 - Manager, stenographers, bookkeepers clerks messengers
 - .312 Workmen
 - Compositors foundrymen pressman mechanics laborers
- .315 Hours, shifts
- .318 Newspaper strikes

- 070 32 Newspaper printing
 Class here discuss on of economy and other advantages of special methods and appliances
 For mechanism and operation of newspaper presses see 655 3: Printing presses
- 321 Size of page
- .322 Methods and appliances
 2 Composition: linotype, monotype, etc.
 3 Stereotyping
 4 Presses
- .324 Newspaper cuts. wood, zinc line, halftone
- .325 Frequency of issue
 Daily semiweekly weekly etc
- .327 Time of issue
 Morning evening successive editions extras
- .328 Size of editions, number printed
- .33 Distribution Circulation Sale
- .331 Direct subscription Mailing
- .332 House delivery
- .334 Indirect newsboys, news agencies etc
 Crying and peddling in streets news stands
- .336 Advertizing methods
 Subdivided like 659 1 Advertizing
- .337 Specialties
 As means of increasing circulation For special departments see 070 43 44
 Regular foreign or marine news sports etc
 Occasional adoption of popular causes exposure of abuses etc
- .338 Other means of increasing circulation
 Competitions guessing contests prizes fairs lotteries expeditions, etc
- .34 Cost of production Expenses
- .341 Plant building and equipment, offices
 Duplicate plant Depreciation of machinery
- .343 Supplies paper, stationery etc
- 344 Salaries and wages
 Space rates Pay of journalists pecuniary inducements of vocation.
 Traveling expenses
- 345 Postage pound rates, free carriage
- 348 Advertizing
 Necessity and cost of advertizing itself to gain circulation and secure advertisements For methods see 070 336
- .349
- .35 Sources of income Receipts
 Sales subscriptions subsidies For bribes see 070 16
- .36 Advertizing department
 Including all business pertaining to a journal's advertizing columns For advertizing agencies see 659 112
- 39 Foreign offices
 Subdivided like 940-999 e.g. N. Y. Herald office in Paris 070 304436

070 4 Editorial management

41 General

Editing rules order of departments and articles style newspaper dictio

42 Staff reporters, correspondents

Organization hours duties For pay see 070 344

43 Editorial departments

431 News

1 Sources and channels of news

Telegraph telephone wireless mail reporters carrier pigeons other

Utilization and precautions conflicting news

2 Press bureaus associated press

Laffan and other news bureaus For clippings see 070 3 under
Literary methods and labor savers

3 Foren

6 Home

7 Local

432 Leaders, editorials

433 Local interests

Discussion of local affairs questions affecting schools library publi
works etc For local news department see 070 4317

44 Special subjects departments and editors

443 Financial stocks, business, shipping etc

445 Household Home Women Children

2 Cookery

4 Clothing Fashions

6 Hygiene Care of children

7 Women's clubs

8 Children's department games, puzzles, etc.

446 Recreation Sporting

447 Art, musical and dramatic

7 Art

8 Musical

9 Dramatic

448 Literary

1 Poetry

3 Fiction

449 Other departments

1 Religion 3 Education 5 Science 8 Humor

45 Voluntary correspondents Contributors

47 Special editions

Sunday newspaper Supplements For extras see 070 327

48 Special kinds of journals

481 Official journals

482 Religious

484 For foren population

In language foren to country in which publish

485 Propagandist

486 Professional and technical

487 Humorous

488 Literary

070 489 Other amateur, etc

070 5-9 Form divisions

.5 Periodicals on journalism

.6 Press clubs Conventions Expositions

.7 Study and teaching of journalism College courses
Schools Personal qualifications for journalism

.9 History of newspapers and journalism

General History of American newspapers 071 of German journalism 073
etc Clas history of a particular journal with that journal

071-079 Newspapers of various countries

The 3d figures 1-9 are used as follows

- | | | |
|------------|-----------|----------------|
| 1 American | 4 French | 7 Slavic |
| 2 English | 5 Italian | 8 Scandinavian |
| 3 German | 6 Spanish | 9 Other |

In large collections use geographic divisions under 1 American 2 English etc as in 970 and 940-999 Because of large size and very general character it is better to keep newspapers together here than to clas with local history of the place where publisht They could not go on shelves with ordinary books and a reference is made as easily to them under 070 as anywhere

080 Polygraphy Special libraries

For sets or "libraries" so constituted as not to be readily scattered by subjects and miscellaneous information, but class in 807.6 literary questions and answers. 080 includes works composed of several distinct writings united in a single collection or series other than periodicals, newspapers and collections of learned societies. Collections conditioned by terms of gift on being kept together may be put here, but for preferable treatment of sets see in Introduction, Assigning class numbers, section 31, and Ref. but the same as together.

081 Individual polygraphy

Complete or partial collections of an author's works, treating of various subjects. If they treat exclusively or mainly of one subject they are classed with that subject.

082 Collectiv polygraphy

Distinct works of several authors, treating of different subjects and published in a collection.

.1 Libraries or series

Class here only such as include several branches of knowledge.

.2 Miscellanies, extracts etc.

Class here only such as include several branches of knowledge.

083 Official publications

087 Publications for various classes of readers

.1 Children's literature

090 **Book rarities**

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspeare goes in 822.33 with reference from 090; 090 is mostly used for grouping references to books located elsewhere. See also 010 for bibliography and bibliography, 655 for printing and publishing.

091 **Manuscripts**

Class in 096 mas important chiefly for illumination. Photographs of mss when more valuable for subject matter go with subject rather than here. For Diplomatics and Paleography, see 417, and under the special language 421.7. 431.7 etc.

.5 Autographs

.6 Printed works with notes in hand of celebrated writers
When notes are by author of work, class in 091.5

092 **Block books**093 **Books printed before 1500 Incunabula**
Colophons094 **Rare printing**

.1 Books of great rarity but later than incunabula

Typographic masterpieces (Aldines Elzevirs Castons etc), small editions, privately printed books, books interesting from choice of type accuracy etc

.2 Unique copies

.3 Editions de luxe

On colored or large paper or printed in colors

.4 First editions

095 **Rare binding**

Noted binders costly ornaments curious bindings bindings bearing coats of arms

096 **Rare illustrations or materials**

.1 Rare illustrations

Illuminated Illustrated by inserted plates

.2 Rare materials

Printed on vellum silk bark etc in gold or silver letters etc Works in characters woven carved engraved etc

097 **Ownership Book plates Ex libris**

- 098 Other classes of works, based on inner characteristics
- .1 Prohibited books
 - Condemned by temporal or spiritual power Books suppressed or censored
 - Library inferno Obscene books sold secretly
 - .11 Prohibited by religious authorities
 - Index expurgatorius Index librorum prohibitorum Books proscribed as contrary to church faith tradition or discipline
 - .12 Prohibited by civil authorities
 - Contrary to morality government or social peace Seditious satirical or libelous books
 - .3 Books lost, imaginary, supposed, projected
 - .5 Books with key
- 099 Other classes of works, based on outer characteristics Curiosa
- .1 Minute size, etc.
 - Microscopic editions dwarf books

Philosophy

100 Philosophy in general

Works limited to none of the 9 divisions

101 Utility

102 Compends Outlines

103 Dictionaries Cyclopedias

104 Essays Lectures Addresses

105 Periodicals *Philosophic magazines*

106 Societies: transactions etc.

107 Study and teaching of philosophy

108 Polygraphy, extracts, maxims etc.

109 History of philosophy

See also 140 *Philosophic systems*, 180 *Ancient philosophers*, 189 *Early Christian and medieval philosophers*, 190 *Modern philosophers*

110 Metaphysics**111 Ontology**

Nature of being Substance and form

- .1 Analysis of idea of being, of 1st substance
- .11 Existence
 - Distinction from essence
- .12 Essential being Essence Quiddity
- .125 Possible being Intrinsic possibility
 - Divine essence and the possible
- .3 Substance Monad
- .31 Distinction from accidents Phenomenalism
 - See also 147 Phenomenalism (philosophic system)
- 32 1st substance Individual substance
 - Subsistent being hypostasis
- 321 Formal reason of subsistence
- .322 Principle of individuation of corporeal beings
 - Immutability of separate forms in a given space
- .33 2d substance Abstract essence
- .4 Accidents
- 41 Existence of accident
 - Conjunction with or separability from substance
- 42 Qualities Powers Operative possibilities
 - Forces Faculties
- .5 Relation
- .51 Existence of real relations
 - Confusion of their reality with that of correlativity terms relativistic theories
- .6 Acts Operations
- .61 Being in potentiality Being in act
 - For applications to substantial action see 113 Cosmology 231 & Theodicy
- .62 Motion Evolution
 - General law nothing actualizes itself See also 116 Motion in cosmology
 - 146 Evolutionism (philosophic system) 575 Evolution in biology
- .7 Created and uncreated being Immateriality
- .8 Transcendental properties of being
- 81 Distinction between being and its transcendental properties
 - Number of transcendental properties primary principles
- 82 Unity Nonexistence Plurality
 - Unity and indivisibility of being
- 821 Real distinction Distinction of reason

822

Reconciliation of unity of beings with their synthesis

- 111 83 Truth
 See also 177 3 Ethics
- 831 Conformity with an ideal type
 God and truth Unity or multiplicity eternity or temporality
 immutability
- 832 Truth, transcendental property of all being
 The false in nature
- 84 Goodness Evil
 See also 179 9 Ethics, 216 Good and evil in natural theology
- 842 Goodness, transcendental property of all being
- 845 Evil its relativity, its cause
- 85 Beauty
 See also 701 17 Esthetics
- 851 Objectivity and subjectivity of sentiment of
 beauty
- 852 Beauty, transcendental property of all being
- 112 Methodology
 Philosophic classification of knowledge. Terminology For book classification see 925 4
- 113 Cosmology
 Philosophy of nature physical or organic world from philosophic viewpoint cosmos,
 nature unverse general laws of nature substantial transformation and corruption
 origin of world cosmogony
 Philosophic theories and discussions See also 117 Matter 146 Mechanism 510 1
 Philosophy of mathematical processes
- 114 Space Locus Void
 Internal and external space infinitesimal space plenum See also 115 4 Space-time
 119 Quantity number 152 752 Space perception
- 115 Time Duration Eternity
 Relation of time and motion See also 116 Motion 119 Quantity number
 152 753 Time perception 218 Eternity in natural theology 237 1 Eternity in
 Christian theology
- .4 Space-time
- 116 Motion Change Transition
 Movement transitional inherent remote action event See also 111 62 Motion
 in ontology 115 Relation of time and motion 52 754 Perception of movement
- 117 Matter Body
 See also 118 2 Identity of energy and matter
- 118 Energy Force Power
 Properties or accidents of organic substances. See also 531 6 Conservation of
 energy
- .2 Identity of energy and matter
 See also 117 Matter
- 119 Quantity Number Extent
 Measurement bulk mass continuity continuousness Distinction from substance
 quantity and principle of individuation of corporeal substances. See also 114
 Space 115 Time

- 120 Other metaphysical topics**
- 121 Epistemology Theory of knowledge**
 Origin sources and limits of knowledge Relativity of knowledge The unknow-
 able Doubt Denial Belief Faith Theory of values worth See also 165
 Logic
- 122 Cause and effect Causality Causation**
 Material cause formal cause efficient or moving cause, original cause condition,
 occasion See also 124 Final cause
- 123 Freedom and necessity**
 Contingence Chance Liberty Determinism Indeterminism See also 159 1
 Freedom and determinism in psychology 233 7 Freedom in theology 234 9 Pre-
 destination
- 124 Teleology Purpose Final cause**
 Norm pattern ideal perfection archetype exemplars exemplary cause
- 125 Infinit and finite Indefinit**
- 126 Consciousness Personality**
 The self See also 153 7 Psychology 233 6 Religious doctrine
- 127 The unconscious The subconscious**
 Unconsciousness subconcioussness automatism See also 153 8 Psychology
- 128 The soul**
 Nature of life and death
- 129 Origin and destiny of individual soul**
- .1 Special creation**
 See also 213 Creation
- .2 Inheritance Traduction**
 See also 136 3 Mental heredity 231 3 Spiritual heredity 575 1 Evolution
- .3 Pre-existence**
- .4 Transmigration Palingenesis Metempsy-
 chosis**
 Incarnation disincarnation reincarnation
- .5 Emanation**
 See also 147 Pantheism 212 Natural theology
- .6 Destiny**
 Immortality survival annihilation etc See also 218 Natural theology 237
 Future state

130 Physiologic, abnormal and differential psychology Metapsicology

For general psychology see 150. See also note under 150

SUMMARY

131	Mental physiology and hygiene	Physiologic psychology
132	Mental derangements	
133	Transcendental psychology	Occultism Occult sciences
134	Hypnotism Animal magnetism	
135	Sleep and wakefulness	Drums Somnambulism
136	Genetic psychology	Mental characteristics
137	Individual psychology	Individuality Personality
138	Physiognomy	
139	Phrenology	Mental photographs etc

.I General theory

For other subdivisions and other forms of divisions see Table 2 following Relative index

16 Miscellaneous theories

Relations of mind and body psychoneural parallelism Philosophic anthropology Mutual influences of sensitive and supersensible life

.162 Dualistic theories

2 Interaction

22 Mutual interaction

23 Occasionalism

24 Cause thec / Influxus physicus

See also 122 Cause and effect

3 Parallelism

32 Preestablished harmony

33 Methodologic parallelism

Physiologic-psychologic parallelism

34 Psychophysical parallelism Pseudomonistic

342 Double or dual aspect theory

343 Naturalistic theory

See also 130 16322 Conscious automaton theory

.163 Monistic theories

2 Materialistic Materialism Mechanistic

See also 146 Materialism

22 Conscious automaton theory Automatism

See also 127 Unconsciousness, automata 130 16234 Psychophysical parallelism

23 Epiphenomenon theory Epiphenomenalism

3 Spiritualistic Spiritualism Idealism Animism

See also 128 The spirit 141 Idealism

32 Spiritual monism Psychic monism

See also 147 Monism

33 Panpsychism Spiritual pluralism

See also 147 Pantheism

34 Mind dust or mind stuff theory

131 Mental physiology and hygiene Physiologic psychology Psychophysiology

For anatomy and physiology of special senses and mental functions see 150 see also 611.8 *Anatomy of nervous system* 612.8 *Physiology of nervous system* 150.72 *Experimental psychology*

.1 Anatomy of nervous system

Evolution and development May be divided like 611.8 Most important subdivisions are given below

11 Brain

Form and weight See also 611.81 *Anatomy*

12 Spinal cord

See also 611.82 *Anatomy*

13 Nerve

See also 611.83 *Anatomy*

139 Sympathetic and autonomic nervous system

See also 611.839 *Anatomy*

2 Physiology of nervous system

May be divided like 612.8 Most important subdivisions are given below

21 Nervous fibers Neurons Fibrils

Nerve elements nerve impulse nerve connections synapse See also 612.81 *Physiology*

215 Physiologic morphology of nervous stimulation

End organs and receptors of nervous system See also 612.815 *Physiology*

1 Sensory terminations

2 Motor

22 Nervous centers Brain

See also 612.82 *Physiology*

222 Nervous cells and nervous centers

1 Chemistry of nervous system

225 Cerebral convolutions (cortex)

May be divided like 612.825 See also 612.825 *Physiology*

2 Psychomotor centers Localizations

Divide like 612.8252

5 Sensory functions of convolutions

Divide like 152 *Sensory perceptions*

8 Intellectual and motor functions

Divide 83 89 like 153 159 *Psychology*

23 Spinal cord and nerves

See also 612.83 *Physiology*

233 Reflex and automatic functions

See also 612.8216 *Psychic reflexes* 612.843 *Spinal reflex action*

29 Sympathetic and autonomic nervous system

See also 612.89 *Physiology*

.3 Mental hygiene

See also 132 *Abnormal psychology* 63.8 *Hygiene of nervous system*

32 Mental health Menticulture Health promoting agencies

323 Influence of personal habits, diet etc on mental health

May be divided like 613 *Hygiene*

324 New thought

Mental science new metaphysical movement metaphysical healing
See also 613.851 *Mind cure*

- 131 33 Unhygienic agencies
- .334 Action of poisons
See also 612 8214 Physiology 615 05 Neurot c poisons
- 1 Alkaloids
- 2 Nonalkaloids
- 4 Alcohol
- 335 Effect of disease
See also 612 8215 Physiology
- .336 Effect of overwork, fatigue, mental strain
- 337 " " worry
- 34 Psychoanalysis
See also 153 8 Depth psychology
- 3407 Clinics Training classes
- 341 Explanations of mental processes
- 2 Dynamic
- 22 Instincts ego instincts, sex instincts etc
Libido ambivalence
- 23 Complexes Oedipus complex, Electra complex, inferiority complex etc
- 24 Conflict censorship repression regression, conversion transference, fixation, rationalization, symbolism, sublimation compensation etc
- 3 Economic
Pleasure-pain principle reality principle etc
- 4 Topographic
Id, ego super-ego
- .342 Technic and methods
- 2 Cathartic method Abreaction
- 4 Free association
- 5 Suggestion
- 7 Reeducation
- .346 Psychoanalytic schools or systems
- 2 Freud sexual view
- 3 Adler purpose force view
- 4 Jung energetic view
- 5 Stekel
- 6 Kempf dynamic mechanism
- .348 Applications
Divide like main classification e.g. 2 Religion, 37 Education, 572 Anthropology 615 Therapeutics

132 Mental derangements

Pathologic psychology abnormal psychology mental diseases psychopathy
 psychiatry psychopathology teratologic psychology For legal aspects see 340.6
 Medical jurisprudence 347.1 Legal capacity for medical discussions see 616.8
 The form divisions are those of 616 and are applicable to all subdivisions of 132
 Classification of special psychological functions with those functions

- 01 Theory
- 011 Causes
- 012 Classification
- 014 Language Terminology Nomenclature
 - For dictionaries see 132.03
- 015 Theories derived from the pure sciences
 - Divide like 500
- 016 Miscellaneous theories
 - 8 Popular theories and errors
- 02 Compendes Handbooks Outlines
- 03 Dictionaries Cyclopedias
- 04 Essays Addresses Lectures
- 05 Periodicals
- 06 Organizations
 - 061 Government departments state boards etc
 - 062 Nongovernment organizations
 - Societies clubs etc
 - 063 Congresses
- 07 Study and teaching 075 Diagnosis
- 08 Polygraphy Collections Extracts
- 09 History
 - 092 Case histories biography

- 132.1 Insanity Mental alienation**
 Craziness, madness, lunacy Use form divisions of 616 (being more fully developed) For housing management and care see 362.2 Hospitals for insane
- .13 Organic brain diseases**
- .14 Functional brain diseases**
- .143 Neurasthenia Chronic nervous exhaustion**
- .15 Neuroses Psychoneuroses**
- 151 Chorea Huntington's chorea**
- 152 Hysteria**
 Shell shock etc See also 132.3 Hypochondria 132.4 Catalepsy, 135.5 Somnambulism
- 2 Psychasthenia Obsessional or anxiety neurosis**
 Obsessions, phobias
- 3 Dissociation of personality**
 See also 137 Personality
- 32 Depersonalization**
- 33 Alteration or transformation of personality**
- 34 Fragmentary personality**
 Dual secondary, alternating and multiple personalities
- 35 Fugues**
- 153 Epilepsy Narcolepsy**
- 155 Aphasia Alexia Amusia Agraphia Apraxia etc**
- 156 Anesthesia Hyperesthesia Hypesthesia Paresthesia**
- 16 Neuroses due to special poisons**
- 161 Alcoholism**
 See also 132.72 Dipsomania
- 162 Metallic tremor**
- .19 Special psychoses and syndromes**
- .192 General paralysis of insane Dementia paralytica Paresis**
- .193 Confusional insanity**
 Mental confusion acute and protracted Delirium acute febrile collapse exhaustion (acute organic reaction types)
- 1 Pathologic intoxication (mania a potu)**
- 2 Delirium tremens**
- 3 Abstinence delirium**
- 4 Traumatic delirium immediate, protracted**
- 5 Exhaustion delirium Exhaustion psychosis**
- 6 Acute hallucinosis**
- 7 Acute pseudoparanoia**
- 8 Korsakow's psychosis**
- 9 Other**

132 195

Manic-depressiv insanity

General unsystematized delusions affectiv reaction types

- 1 Manic type mania expansiv psychosis, euphoria
- 12 Hypomania
- 13 Acute mania
- 14 Delirious mania
- 15 Chronic mania
- 3 Alternating, periodic or circular type
 - Circular insanity (false circulaire) insanity of double form
 - epithymia variability of mood
- 4 Depressiv type
 - Depressiv psychosis, pathologic sadness and grief hypochondria, melancholia See also 132.3
- 42 Simple retardation
- 43 Acute depression
- 5 Stuporous type Depressiv stupor
- 6 Mixt type
 - Manic stupor
 - Agitated depression
 - Unproductiv mania
 - Depressiv mania
 - Depression with flight of ideas
 - Akinetic mania
- 7 Involution melancholia
 - See also 132.35 Melancholia

.197

Paranoid reaction types

Partial, systematized unopposed, polymorphic diffused delusions
delusional insanity

- 2 Paranoia
 - 22 Original
 - 23 Acquired
 - 24 Abortiv
 - 25 Latent
 - 26 Paranoia querulans Querulous paranoia
- 3 Paraphrenia
 - 32 Systematic
 - 33 Expansiv
 - 34 Confabulatory
 - 35 Fantastic
- 4 Paranoid states or paranoid constitution
 - Narcissism

132.198

Dementia

Chronic organic reaction types

- 1 Acute or furious dementia Primary dementia
- 12 Alcoholic dementia
 - See also 132 161 Alcoholism 132 72 Dipsomania
- 122 Alcoholic deterioration
- 123 Chronic alcoholism
- 124 Alcoholic pseudoparesis
- 125 Alcoholic epilepsy
 - See also 132 153 Epilepsy
- 126 Chronic hallucinosis
- 13 Traumatic dementia
- 132 Traumatic constitution
 - Vasomotor neurosis explosiv diathesis
- 133 Post traumatic mental enfeeblement
- 2 Dementia precox and schizophrenic reaction types
 - Neuroepithelial dementia discordant insanity secondary or terminal dementia. See also 132 195 Manic-depressive insanity
- 22 Simple type schizophrenia simplex
- 23 Katatonic type katatonia, katatonic dementia
- 24 Hebephrenic type hebephrenia, hebephrenic dementia
- 25 Paranoid type paranoid dementia
 - See also 132 197 Paranoid reaction types
- 26 Mixt type
- 3 Senile dementia
 - 31 Simple senile deterioration
 - 32 Presenile dementia
 - 33 Senile delirium, delirious and confused types
 - 34 Presbyophrenia
 - 35 Alzheimer's disease
 - 36 Deprest and agitated type
 - 37 Senile and chronic pseudoparanoïd type
 - 38 Arteriosclerotic type
 - 382 Post paralytic dementia
 - 383 Post-apoplectic dementia
 - 39 Other

132.2

Mental deficiency

Amentia, foolishness arrests of development maldevelopments stupidity
 Use form divisions as in 132 For housing management and care see 352.3
 Hospitals for idiotic imbecile feeble-minded for education of feeble-minded
 see 371.92

.22

Psychopathic personality

Constitutional psychopathic inferiority

.222

Emotional

2

Emotional instability

3

Pseudoquerulance

4

Eccentricity

.223

Moral imbecility or insanity

See also 132.6-7

.24

Intellectual defect

See also 151.2 Intelligence tests

.242

Grades

2

Idiocy

3

Imbecility

4

Morosity Feeble-mindedness

5

Borderline and dull normal

.243

Accompanying deformity

2

Brachycephalism

22

Mongolism

23

Kalmukism

24

Tartarism

3

Hydrocephalism

4

Microcephalism

.244

Accompanying disease and injury

1

Amaurotic family idiocy

2

Cretinism Myxedemism

See also 616.997 for medical viewpoint

3

Paralytic types

4

Epileptic types Eclampsic types

5

Syphilitic types

6

Inflammatory types

7

Sensory-deprivation types

8

Traumatic types

9

Other

- 132.3 Hypochondria Melancholia**
 As separate mental states. See also 132 1954 Manic-depressiv insanity, depressiv type 616 852 Hysteria
- .32 Hypochondria Hypochondriasis**
 Use form divisions as in 132
- .322 Physical hypochondriasis**
- .323 Psychic** "
- .35 Melancholia Melancholy**
 Use form divisions as in 132 See also 132 1957 Involut on melancholia
- .352 Acute (recent, recurrent) melancholia Melancholia simplex**
- .353 Chronic (excited or hypochondriac) melancholia Melancholia agitata**
- 2 Cotard's syndrome**
- .358 Special types**
- | | | | | | |
|---|------------|---|-----------|---|-------------|
| 1 | Religious | 4 | Stuporous | 7 | Confusional |
| 2 | Delusional | 5 | Suicidal | 8 | Impulsiv |
| 3 | Resistiv | 6 | Anxious | 9 | Other |
- .4 Catalepsy**
 Use form divisions as in 132 See also 132 152 Hysteria 132 153 Epilepsy 132 5 Ecstasies 134 Hypnotism 616 852 Hysteria from medical viewpoint
- .43 Degrees**
- .432 Complete: physical and mental**
- .433 Complete physical rigidity**
- 434 Partial physical rigidity**
- .435 Mental activity**
- .438 Duration**
- 44 Characteristics**
- .46 Effects**
- .5 Ecstasies Ecstasy**
 Mystic or religious insanity illumination visionaries. Use form divisions as in 132 See also 132.4 Catalepsy 133 2 Hallucinations, 248 Religious ecstasies
- 52 Types**
- .522 Voluntary or natural**
- .523 Involuntary or supernatural**
- 53 Degrees**
- .538 Duration**
- .54 Characteristics**
 Ecstasies visions trances frenzy rapture etc
- .56 Effects**

- 132.6 Derangements leading to crime Criminal manias
 See also 132 223 Moral imbecility For legal responsibility see 340 5 Medical jurisprudence 347 1 Legal capacity
- 62 Kleptomania
- 63 Pathologic swindlers
- .64 Destructive manias pyromania
- 65 Homicidal and suicidal manias
- .7 Derangements leading to vice Vicious manias
 See also 132 223 Moral imbecility
- .72 Dipsomania
 See also 132 161 Alcoholism 178 Temperance 616 861 Alcoholism from medical viewpoint
- 73 Drug addiction
 Morphinomaniac or morphinism cocaineomania etheromania etc
- .74 Pathologic lying
- 75 Sexual manias and aberrations
 Including those leading to crime Sexual anomalies, sexual psychopaths.
 See also 176 Sexual ethics
- 752 Eroticism Erotic delusions
- .753 Nymphomania
- .754 Sexual perversions
- | | | | | |
|---|-------------------|---|------------------|-------|
| 1 | General questions | 6 | Sexual inversion | Homo- |
| 2 | Exhibitionism | | sexuality | |
| 3 | Fetishism | 7 | Incest | |
| 4 | Masochism Sadism | 8 | Masturbation | |
| 5 | Bestiality | 9 | Other | |
- .755 Moral impotence Frigidity
- .8 Mnemonic derangements Memory defects
 Not knowing in one state what past in another See also 154 Memory
- 82 Hypermnnesia
- 83 Paramnesia Pseudo reminiscence
 See also 132 74 Pathologic lying
- 84 Amnesia
- .841 Complete
- .842 Partial
- | | | | | | |
|---|-------------|---|---------------|---|--------------|
| 1 | Anterograde | 4 | Periodic | 7 | Systematized |
| | Progressive | 5 | Circumscribed | 8 | Hysterie |
| 2 | Retrograde | | Lacunar | 9 | Other |
| 3 | Continuous | 6 | Sensory | | |
- Divide like 152

133-135 Metapsychology Psychic phenomena

Parapsychology, metapsychics General works including occultism hypnotism and dreams are (unless one of the other subjects strongly predominates) classed in 133

**133 Transcendental psychology Occultism
Occult sciences**

Delusions cabalistic art For alchemy hermetics alkahest elixir of life philosopher's stone transmutation of metals see 540.1

01 Theory**015 Theories derived from the pure sciences**

Divide like 500 Include under 133.015-016 theories regarding humbugs and frauds in general but class those relating to a specific topic with that topic

016 Miscellaneous theories**07 Psychic research Psychic studies**

Class research in a special field with that field

.1 Apparitions Ghosts

Specters, wraiths spirits phantoms, shades phantasms etc See also 133.2 Hallucinations 398.3 Folklore

.12 Localized

Hauntings haunted houses house spirits poltergeist haunted graveyards haunted forests etc See also 398.32 Folklore

13 Unlocalized**.14 Supernatural beings**

Revenants goblins hobgoblins loup-garous werewolves lycanthropes etc See also 398.4 Folklore

15 Sea specters Flying Dutchman, etc**.2 Hallucinations Illusions****22 Hallucinations**

See also 132.1 Insanity 132.5 Ecstasies, 133.1 Apparitions 133.322 Crystal gazing 133.4 Witchcraft, 133.6 Telepathy clairvoyance 133.9 Spiritism (veridic hallucinations) 134.52 Hypnotic hallucinations 135.33 Dreams hypnagogic hallucinations

.221 Causes**2 Peripheric stimulation****3 Cerebral "****4 Reductorless images****5 Obstruction of neural paths****6 Abnormal excitation of neural paths****7 Emergence of subconscious imagery****.222 Types****2 Reproductive****3 Constructive****4 Creative**

DECIMAL CLASSIFICATION

133 223

Forms

1-6 may be further subdivided like 152 1-6

- 1 Visual
- 2 Auditory
- 3 Olfactory
- 4 Gustatory
- 5 Tactil or haptic
- 6 Muscular, psychomotor, visceral
- 7 Synesthetic or reflex

.224 Degrees

- 1 Pseudo- or semi hallucinations
- 2 Complete hallucinations

.24 Illusions

See also 152 73 Normal illusions

.241 Causes

- 2 Confusion of sense impression
- 3 Misinterpretation of sense impression
- 32 Passiv
- 322 Determined by organism
- 323 " " environment
- 33 Activ
- 332 Voluntary preperception False recognition
- 333 Involuntary "

.243 Forms

Divide like 133 223

.3 Divination Predictions: oracles, 2d sight, omens

Divinatory art prognostication prophecies Sibyllin books etc Sibyls, augurs, soothsayers prophets seers etc

.32 Autoscopic

.322 Sensory automatisms

Crystal gazing shell hearing premonitions 2d sight presages death warning etc See also 133 83 Clairvoyance

.323 Motor automatisms

Divining rod (Cumberlandism) dowsing for water and precious metals (see also 622 12 Prospecting) cosmomancy (divining with a balance) ring divining, ordeal by Bible and key sand divination divination by automatic writing trance speaking etc See also 133 93 Spiritism

324 Mental impressions

Cartomancy card fortune telling reading coffee grounds and tea leaves etc For Palmistry see 133 6 for Dreams see 135 3

33 Heteroscopic

332 Sortilege Casting lots

Astragalomancy (divination with dice or small bones) bibliomancy (omens drawn from Bible and other books sortes Virgilianae) etc

.333 Haruspication (inspection of entrails), hepatoscopy (inspection of liver), scapulmancy (divination by shoulder-blade), divination by footprints in ashes, geomancy etc

- 133-334 **Augury and omens**
 Behavior and cries of birds meeting ominous animals signs auspices
 thunder and lightning falling stars, celestial signs prodigies, portents etc
- .335 **Sympathetic omens Symbolism**
 Numerology etc For Astrology see 133 5
- .4 **Witchcraft Sorcery Magic Demonology**
 Black magic white or natural magic necromancy psychomancy
- 401 **Theories**
- 6 **Miscellaneous**
- 62 **Religious aspects**
- 63 **Legal "**
- 409 **History**
 See also 272 8 Persecutions
- 4093-4099 **In special countries**
 Divide like 930-999 For New England or Salem witchcraft see also
 973 25
- .42 **Activities and practises**
 Satanism witches sabbaths nocturnal revels incantations evocations spells
 evil eye demoniac obsession and possession diakla lycanthropy incubi
 succubi vampires flying thru air riding on broomsticks etc
- .43 **Instruments and apparatus**
 Black books grimoire conjuring books magic metals rituals, magician's
 wand etc
- .44 **Means of help and protection**
 Exorcism charms amulets talismans philters etc
- .5 **Astrology**
 Judicial or mundane astrology only for natural astrology see 520 1 Under
 this number and its subdivisions are included both descriptive and interpretive
 material
- .52 **Zodiac signs**
- .522 **Works on individual signs**
- .523 **According to position**
- 2 **Northern commanding masculine or strong**
 Aries Taurus, Gemini, Cancer Leo Virgo
- 3 **Southern obeying feminine or weak**
 Libra Scorpio Sagittarius, Capricornus Aquarius Pisces
- .524 **According to structure Triplicities**
- 2 **Earthy Taurus Virgo Capricornus**
- 3 **Fiery Aries Leo, Sagittarius**
- 4 **Airy Gemini Libra, Aquarius**
- 5 **Watery Cancer, Scorpio, Pisces**
- .525 **According to time**
- 2 **Diurnal**
 Aries Gemini Leo Libra Sagittarius, Aquarius
- 3 **Nocturnal**
 Taurus Cancer Virgo Scorpio Capricornus Pisces

DECIMAL CLASSIFICATION

- 133 53 Planets
- .532 Works on individual planets
Uranus Saturn Jupiter Mars Sun Asteroids Juno Pallas Ceres,
Vesta) Moon Venus Mercury
- .533 Aspects
Conjunction sextil quartal trine opposition
- .534 Houses
Life or person riches brethren or kindred parents children servants
and sickness marriage death religion magistracy friends enemies
- .535 Special positions
Joys dragons head dragons tail part of fortune ascendent etc
- .54 Horoscopes
Hyleg Amaretta etc
- 55 Tables of declinations
- .56 General applications
- .562 Nativities
Class nativities of special individual with biography of that individual
- .563 Horary questions
- .58 Special applications
Medical astrology etc Divide like main classification For Biblical
astrology see 220 81335
- .6 Palmistry Chiromy
- 62 Chiromy
Determination of type of intelligence from form of hand
- .622 Anatomy and physiology of hand
Anatomy texture hair nails etc of hand See also 611 976 Anatomy
- .623 Types of hands
Elementary Spatulate or active Concave or artistic Square or useful.
Knotty or philosophic Pointed or psychic Mixture
- .63 Chiromy
Study of comparative value of manual formations
- .64 Chiromancy
Divination by means of mounts lines and other markings of hand and
fingers
- .642 Mounts
Jupiter Saturn Apollo or Sun Mercury Mars Luna or Moon Venus
- .643 Lines
- 2 On palm
Head line life line heart line fate line or line of Saturn line of
Apollo of Sun of fortune or of brilliancy line of Mercury of
health of liver hepatic line or hepatic girdle of Venus line of
Mars ring of Solomon or Jupiter line of intuition of Moon or
Luna via lascivia lines of affection etc
- 3 On wrist
Racettes or 3 bracelets
- 4 On fingers
- .644 Signs
- 2 On palm
Star square spot circle island triangle cross cross mystique grille,
signs of planets quadrangle or table percussion etc
- 3 On wrist
- 4 " fingers

133-7 **Humbugs Quackery**

'Charlatans, impostors. Subdivide by type of humbug according to main divisions of 133, e.g. fraudulent magicians and sorcerers 133 74, fraudulent astrologists 133 75, fraudulent palmists 133 76, telepathic and clairvoyant frauds 133 78, fraudulent mediums 133 79. For humbugs not thus provided for use 133 77 divided like main classification

.8 Telepathy Clairvoyance Clairaudience

See also 133 2 Hallucinations, 133 9 Spiritism, 134 Hypnotism, 135 3 Dreams

.82 Telepathy

Mind reading, thought transference, telepathic hallucinations

8201 Theories

16 Miscellaneous theories

161 Psychic

162 Physical

.822 Forms

2 Physical

Divide like 152 Sense perceptions

3 Mental

4 Emotional

.823 Reciprocal telepathy

.824 Collectiv "

.83 Clairvoyance Clairaudience

Class here material covering both subjects. See also 133 3 Divination

.8301 Theories

16 Miscellaneous theories

161 Psychic

Lucidity, telepathy etc

162 Physical

Ray theories, corpuscular theories hyperesthesia etc

.832 Cryptoscopic

Vision of normally invisible hidden objects, or hearing of normally inaudible sounds, near at hand

.833 Psychoscopic Psychometric

Supernormal knowledge of distant, future or past events connected with objects at hand

2 In space

3 " time

.84 Clairvoyance

Divide like 133 83

.85 Clairaudience

Divide like 133 83

133.9 Spiritism Spiritualism

Psychism communication with dead with discarnate spirits or intelligences mediums and mediumship spiritistic or mediumistic phenomena with or without trance For Bible and spiritualism see 220.81339 Christianity and spiritualism 289.9

901 Theory

5 Theories derived from the pure sciences

Divide like 500

6 Miscellaneous theories

61 Subliminal self Subconscious mentation Mental dissociation Multiple personality Dissociation of personality Multiple consciousness

62 Telepathy Veridic hallucination Extensionization of sensations or impressions

63 Clairvoyance Retrocognition

64 Hallucination and illusion

65 Spiritistic possession

92 Objectiv or physical phenomena

.922 Telekinesis

Table-tipping table-turning, typology raps, levitation supports transports dermatization of objects or 4th dimension psychography or direct writing and drawing etc

.923 Ectoplasms

Materialization of spirits teleplasmic bilocation psychic or spirit photography fluidic body emanation of substance psychic rods, astral body etc

.93 Subjectiv or mental phenomena

Teleesthesia or cryptesthesia Sensory automatisms ouija board and planchet messages automatic writing and drawing trance speaking automatic speaking intrapsychic conflict interference book tests psychometry or pragmatic cryptesthesia xenoglossus monitions premonitions spiritistic messages etc See also 133.3 Divination 133.8 Telepathy Clairvoyance

94 Psychic healing

See also 615.65 Cures

134 Hypnotism

Mesmerism hypnosis Braxism electrobiology neurohypnotism neurypnology

01 Theory

015 Theories derived from the pure sciences

Divide like 500

016 Miscellaneous theories

1 Psychologic

Mental cerebral or functional association secondary submerged subconscious or subliminal self suggestion etc

2 Physical

Odic or odic force ectenic force magnetic fluid animal magnetism biomagnetism etc

6 Physiologic

7 Pathologic

Hysteria susceptibility neurosis etc

.1 General questions

Legal aspects etc

- 134.2 Induction
- .22 Methods
 - .222 Domination
 - .223 Cooperation
 - .23 Means
 - .232 Physical: monotonous stimulation of sense organs, etc
 - .233 Mental: suggestion etc
 - .5 Effects
 - .52 Concurrent
 - Heightened suggestibility, rapport, lethargy, hypnotic or artificial catalepsy, hypnotic or artificial somnambulism hypnotic trance, anesthesia positive and negative hallucinations, hypnotic delusions, organic effects telepathy, clairvoyance etc
 - .53 Post-hypnotic
 - Amnesia respecting events occurring during hypnosis, post hypnotic
 - .6
 - .8
- like main classification

135 Sleep and wakefulness Dreams Somnambulism

- .2 Sleep and wakefulness
 - State of being awake or waking See also 612 8217 Physiology
- .201 Theory
 - See also 612 82173 Physiology
 - 5 Theories of sleep derived from the pure sciences
 - Divide like 500
 - 6 Miscellaneous theories
 - 63 Neurologic or histologic theories
 - 64 Psychobiologic theories
 - Sleep as an instinct hypnotic state muscular relaxation theory, psychoanalytic theory, vasomotor control theory, etc
 - 66 Physiologic theories
 - 663 Mechanic or circulatory theories
 - 664 Chemic theories
 - 67 Pathologic theories
 - Toxic and autotoxic theories
 - 68 Early and popular theories
- .22 Conditions conducive to sleep
- .23 Phenomena normally accompanying sleep
 - See also 135 3 Dreams
- .232 Physical
 - 3 Cerebral circulation
 - See also 612 82174 Physiology
 - 4 Chemic phenomena
 - See also 612 82175 Physiology
 - 5 Positions during sleep
- .233 Mental

- 135 24 Depth and length of sleep
Partial sleep redness to wake in response to definite stimuli Prolonged sleep Hypnagogic state
- 25 Results of sleep
- 26 " " lack of sleep
- .27 Abnormalities
See also 132 4 Catalepsy 135 5 Somnambulism
- .272 Excessive tendency to sleep
- .273 Insomnia or abnormal wakefulness
- .274 Sleep of insane
- .275 Drugs and sleep
- .3 Dreams Visions
See also 612 82176 Physiology 132 5 Ecstasies, 133 2 Hallucinations
- 301 Theory -
- 5 Theories derived from the pure sciences
Divide like 500 e g 135 30157 Biologic recapitulation or atavistic theories
- 6 Miscellaneous theories
- 62 Free association theory
- 63 Illusion theory
- 64 Psychoanalytic theories
Expression of repressed desires or fears
- 66 Physiologic theories
- 68 Early and popular theories
Wandering of soul divine origin astrologic theories various popular views etc
- .32 Classification of dreams
- .322 According to origin
- 2 Presentative
Due to objective or physical stimuli
- 3 Representative
Due to subjective or mental stimuli
- .323 According to type
Promonitory prophetic prodromic collective kinaesthetic recurrent night mares night terrors dreams of death etc
- .33 Content of dreams
Imagery past experiences, effect of special stimuli on content hypnagogic hallucinations etc
- 34 Characteristics or peculiarities
Speed, condensation, absurdity, sense of reality or unreality, effect of waking on dreams etc
- .35 Effects of dreams
As conservers of sleep as influencers of waking life etc

- 135 36 Dreams of special classes of persons
 362 Groups by age
 2 Children
 3 Aged
 363 Sensory defectives
 Blind, deaf etc. *See* 135 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 364 Insane
 365 Drug addicts
 366 Criminals
 37 Day dreams Autistic thinking
 See also 135 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
 38 Interpretation of dreams
 382 Popular oneiromancy, fortune telling by dreams,
 dream books, etc
 See also 398 7 Folklore
 383 Scientific psychoanalytic etc
 5 Somnambulism Sleep walking Noctambulism
 Natural for induced somnambulism *see* 134 57 Hypnotism *see also* 132 152
 Hysterical somnambulism
 51 Causes
 53 Degree of sensibility
 532 Responsibility
 55 Activities
 553 Degree of difficulty
 2 Simple
 3 Complicated
 554 Habitual
 555 Unusual
 56 Management Treatment
 6 Sleep talking
 61 Causes
 63 Character
 632 Coherent
 633 Incoherent
 634 Relation to waking interests
 635 Remembered on waking

136-139 Differential psychology

General works on Differential psychology class in 136

136 Genetic psychology Evolutional psychology Mental characteristics

See also 131 Mental physiology 575 Evolution

.1 As influenced by sex Sex psychology**.11 Sex and intellectual qualities**

Divide like 150 Psychology See also 376.2 Mental capacity of women

.12 Sex and mental derangements

Divide like 132 Mental derangements

.17 Sex and personality

Divide like 137 Personality

.2 As influenced by physical and social surroundings

Psychology of physical environment Biometric influences Mental euthenics

See also 573.4 Natural history of man, 575.3 Evolution

.22 Sensory influences

May be further divided as under 152

.221 Vision* color, light, darkness etc**.222 Hearing* sounds, noises, silence etc****.223 Smell: odors****.224 Taste****.225 Touch softness, smoothness etc****.24 Topographic influences Landscape****.25****.26****.262**

Urban

.263

Suburban

.264

Rural

.265

Housing* rooms etc

.27

Social influences, neighbors, associates

See also 301.15 Social psychology

.28

Clothing

.3**As influenced by ancestry Mental heredity**

Influence of evolution Mental eugenics Biologic survivals etc See also

575.1 Evolution

31

Inheritance of intellectual qualities

Divide like 150 Psychology

32

Inheritance of mental deficiencies

Degeneracy, criminality, inferior families Divide like 132 Mental derangements See also 613.92 Hygiene

33

Moral and spiritual qualities

See also 129.2 Origin of soul 233.3 Doctrinal theology

37

Inheritance of personality characteristics

Divide like 137 Personality

PHILOSOPHY

- 136.4 As influenced by race** **Racial characteristics**
Race psychology folk psychology, ethnic psychology ethnopsychology,
völkerpsychologie See also 572 Ethnology
- .41 Prehistoric or primitiv man** **Paleopsychology**
Divided like 571 Prehistoric archeology
- .411 Paleolithic** **Erly stone age**
- .412 Neolithic** **Late stone age**
- .413 Bronze age**
- .414 Iron age**
- .48 Races divided by language like 400**
- .49 " " " country like 930-999**
National psychology psychology of nations and peoples. Divide by
country where possible Use language divisions for groups like Semitic,
Aryan Teutonic English etc. See also 913-919 Description, national
characteristics
- .5 As influenced by age**
For general works, also for adult period only, for earlier period see 136 7
Childstudy
- .52 Maturity**
Adult manhood period of greatest ability efficiency mental virility
- .53 Senescence**
Period of mental decline old age ad childhood
- .6 As influenced by physical structure and conditions**
Stature posture physical abnormalities deformities etc
- .7 Childstudy** **Paidology, pedology** **Child**
psychology
Influence of childhood including adolescence
- 702 Methods** **Mental tests**
- 1** **Laboratory**
- 2** **Home**
- 708 Observations** **Records** **Albums**
- .71 Body structure, growth, care**
Physical development of child limited to development period. See also
136 3 Mental heredity 371 7 School hygiene 612 6 4 Embryology,
612 6 5 Growth 612 9 Hygiene 613 9 Heredity
- .72 Mind** **Intellectual development of child**
Divide like 150 Psychology Limited to period of physical development
In a general library better class in 130 and 150 with only references here
- .73 Mental characteristics**
Group by influence like 136 1 6
- .735 As influenced by age** **Nascent periods**
- 2** **Babyhood, infancy** **Infant psychology**
- 22** **Pre social period (1st year)**
- 23** **Imitating and socializing period (1-2)**
- 3** **Childhood**
- 32** **Period of individualization (3-5)**
- 33** **" " competitiv socialization (6-11)**
- 4** **Adolescence (12-25)** **Puberty, youth**

DECIMAL CLASSIFICATION

- 136.74 Children's point of view What children think
 Divided like main classification e g
 7417 Ethics 7479 Games play
 742 Religion 748 Literature
 744 Language
- .75 Delineation of children
 Psychology of children from artists' and authors' point of view
- .757 In art .758 In literature
- .76 Abnormal children
 Study of development For methods of instruction see 371.9 for institutions see 362 Hospitals asylums 364 Reformatories
- .761 Physically defectiv
- | | | | |
|---|----------|----|----------------|
| 1 | Blind | 5 | Def mutes |
| 2 | Def | 55 | Blnd def-mutes |
| 3 | Blnd def | 6 | Crippld |
| 4 | Dum | 7 | Deformd |
- .762 Mentally defectiv
 Divide like 132 Mental derangements e g study of idiotic children 136 762.2422
- .763 Morally defectiv Delinquents
- .764 Wildings
 A class of children who having been lost or deserted, have grown up away from the surroundings of children, alone or among animals
 Psychology 1 196 (July 1900)
- .765 Exceptionals Precocity
 Youthful prodigies See also 151.1 Genius
- .766 Backward children Retardation
 See also 371.28 Education
- .767 Dependents
 Homeless children a public charge lacking ideas and associations of children in families Abandoned children foundlings orphans
- .769 Other abnormal classes
- .77 Boys The 'gang' Boy problem
 Gamans
- .775 Girl problem
- .79 Childhood in various countries and times
 Divide like 930-999
- .791 The child among uncivilized and semicivilized peoples

137-139 Character analysis Characterology

Class in 137 general discussions not limited to a special system

137 Individual psychology Individuality Personality

Psychology of character Idiosyncrasies mannerisms, personal equation, etc. See also 170 Ethics 153 7 Consciousness

.3 Constituent elements of personality Traits

Psychogram

.31 Physical

Divide like 610 Medicine

.311 Anatomic

Divide like 611 Anatomy

.312 Physiologic

Divide like 612 Physiology

.313 Health

Divide like 613 Hygiene

.316 Pathologic

Divide like 616 Diseases

.32 Moral and religious

.33 Social

.35 Mental

Divide like 150 Psychology

.37 Esthetic

.38 Special abilities or talents

Divide like main classification e g

137 3851 Mathematical ability

3878 Musical talent

389 Historical ability

See also 151 18 Classes of genius 151 2238 Tests of talent

.4 Types of personality Temperaments

Biotypeology

.42 Popular classifications

Choleric sanguine mercuric phlegmatic bromidic etc

.45 Scientific classifications

Introverts extroverts etc Apathetic affective intellectual temperate voluntary etc Visual audil motor etc See also 154 45 Types of learners

.5 Cultivation of personality

.7 Grafology

Character analysis by study of handwriting See also 652 Writing

.72 Popular and divinatory grafology

Fortune telling by means of handwriting

.75 Scientific grafology

.8 Tests of personality and character

Tests of specific traits class with those traits See also 151 2 Measurements

138 Physiognomy

Expression of mentality thru the body Bodily signs revealing character Character analysis by study of physical features Effect of expression of emotions on facial and bodily features as index to character Pathognomy See also 137 2 Expression of emotions

.2 Divinatory Astrologic

.3 Descriptiv

.4 Physiologic

139 Phrenology Mental photographs, etc.

Cranioscopy craniology (see also 573 7 Somatology) cerebral localization of faculties or functions See also 131 2252 612 8252 Psychomotiv centers localizations, 152 Sense perceptions

.2 Character analysis by cranial bumps and depressions

.22 Feelings

.222 Propensities: internal impulses inviting only to certain actions

.223 Sentiments: impulses prompting to emotion as well as to action

2 Lower those common to man and the lower animals

3 Higher: those proper to man only

.23 Intellectual faculties

.232 Perceptiv faculties

.233 Reflectiv "

.3 Anatomic aspects

.4 Physiologic aspects

.5 Psychologic "

140 Philosophic systems and doctrines

Heds 140-149 9 ar for discussion of systems and doctrines as such. Philosophic works of authors of these various schools ar classed under 190 not here. From these heds refer in catalogs to authors clearly falling under them without attempting to label each writer as an exponent of some one system. See also 150 19
Psychologic systems

141 Idealism Transcendentalism Spiritualism Panpsychism Subjectivism Individualism Personalism Voluntarism Romanticism

e. g. Plato see 184.1 895.4 Berkeley see 192.3, Fichte see 193.3 Emerson see 191.3 814.36 See also 184 Platonism 180.4 Neoplatonism

142 Critical philosophy Criticism Neocriticism Kantism Neokantism Phenomenalism

e. g. Kant see 193.2 See also 111.31 Phenomenalism in ontology

143 Intuitionism Bergsonism

e. g. Reid, see 192.5 McCosh see 191.5 Bergson see 194.0 See also 149.3 Mysticism 156
Intuitive faculty 171.2 Ethics

144 Empiricism Pragmatism Humanism Instrumentalism Utilitarianism

e. g. Descartes see 191.1 Bacon see 192.1 See also 150 1943
Behaviorism

145 Sensationalism

e. g. Locke see 192.2

146 Naturalism Materialism Positivism Atomism Mechanism Neomechanism Dynamism Energism Evolutionism Transformism Comtism

e. g. Hobbes see 192.9 Comte see 194.8 See also 111.62 Evolution in ontology
149.2 Realism 187 Epicureanism 575 Evolution in biology

- 150.19 Psychologic systems or schools
 See also 131.34 Psychoanalysis 140 Philosophic systems
- 192 Structural or existential psychologies
 Structuralism
- 2 Faculty psychology
- 3 Mentalism
- 4 Gestalt or configuration psychology
- 5 Psychosomatic organism, or mind-body performance psychology
- 193 Functional psychologies
- 2 Dynamic psychology
- 3 Purposive psychologies
- 32 Hedonic
- 33 Hormic
- 194 Reaction or response psychologies
- 2 Endocrine psychology Endocrinism
 Glandular reaction psychology
- 3 Behaviorism Anthroponomy
- 4 Reflexology
- 5 Dialectic materialism
- .7 Study and teaching
- 72 Experimental psychology Experiment and research
 See also 131 Physiological psychology For experiments in a specific field see that field
- 722 Laboratories
- 725 Methods
 For psychologic methods in general see 150.18
- 2 Subjective Introspection (reflection, analysis, retrospection)
- 3 Objective
- 32 Reception methods Methods of impression
- 33 Reaction "
- 332 Methods of judgment
- 333 " " execution
- 334 " " expression
- 34 Qualitative methods
- 35 Quantitative " Statistical etc
 See also 151.2 Measurements, 152.8 Psychophysics 30 Statistics

151 Intellect Capacity for knowing

Intelligence talent intellectual life the normal mind

.1 Genus

Men of superior attainments eminent or illustrious men, supermen etc

12 Traits of genius

.122 Physical

Stature pigmentation, deformity etc

123 Mental

Precocity (see also 136 765 Childstudy) general intelligence, inventive talent inspiration intuition, originality etc

.124 Personality traits Temperament etc

See also 137 Personality

13 Genius as hereditary

Superior families royalty ethnic incongruity miscegenation etc See also 136 3 Mental heredity

16 Genius as pathologic

162 Genus and insanity

Manic-depressive insanity neurasthenia secondary personality *idiot savants* etc See also 132 1 Insanity

.163 Genus and disease

Tuberculosis gout, general health etc

.164 Genus and vice

Alcoholism use of opium and other drugs etc

165 Genus and degeneracy

17 Environment and training of genius

Home life position of family occupation of parents, education etc See also 136 2 Influence of physical surroundings 371 95 Education

18 Classes of genius

Divide like main classification e.g. Mathematical genius 151 1851 See also 137 38 Personality talents

19 Geographic distribution of genius

Divide like 930-999

2 Measurements Tests

Mental tests psychologic measurements measurements or tests of innate mental capacity including Intelligence tests See also 152 8 Psychophysics 371 26 Education measurements and tests

.22 Classification

.222 Tests of general intelligence

2 Individual

22 Verbal

Binet-Simon Stanford revision of Binet-Simon Yerkes-Bentley scale etc

23 Non verbal

Healy picture completion test army picture completion test Pintner performance test etc

3 Group

32 Verbal

Otis group tests Army alpha tests national research tests national intelligence tests Thurstone omnibus test etc

33 Non verbal

Army beta Dearborn group tests no 2 Myers mental measure etc

DECIMAL CLASSIFICATION

- 151.223 Tests of special capacity or aptitude
 Individual or group, verbal or non verbal. Clas preferably under special capacity tested, e g Association tests 153 28
- 2 Tests of simpler processes
 Reaction times coordination motor control, sensory capacity, simple discrimination tests space perception attention etc. Divide like 152 Sense perceptions
- 3 Tests of higher central processes
 Association, learning retention, memory, reasoning etc. Divide like 153 155, e g 151 22332 Association 151 22334 Memory, 151 22335 Imagination
- 4 Tests of emotion aspects
 Divide like 157 Emotions
- 5 Tests of volition qualities
 Divide like 159 Will, volition
- 8 Tests of talent
 Musical, mathematical, etc. Divide like main classification. See also 137 38 Personality traits 1, 18 Classes of genius
- .23 Forms of tests
 General tests, special tests, etc.
- .24 Apparatus
- .25 Construction and administration of tests
- .26 Interpretation of results Statistical methods, etc
- .262 Scoring
- .263 Establishing norms
 Mental age, intelligence quotient (IQ) etc
- .264 Tabulating results
 Tables curvs graphs histograms psychograms frequency polygons etc
- .265 Correlations Correlational psychology
- 1 General questions
 Factor theory etc
- 2 Among tests
- 3 " traits or abilities
- .28 Applications
 Divide like main classification e g Mental tests applied to industrial management 151 28658, but usually better class with special subject as 331 115 Mental tests for selecting workers

151.3 Animal psychology Comparativ psychology Biopsychology Zoopsychology

- animal ecology
- 307 Study
- 2 Experiment
- 25 Experimental methods
- 258 Special methods
- | | | | |
|---|--|---|--|
| 1 | Labyrinths | 6 | Method of salivation |
| 2 | Boxes with special devices | 7 | " " associativ or
conditioned reflex |
| 3 | Animal training and learning | | Methods of Bechterev
Pavlov etc |
| 4 | Observations on imitation
and insight | 8 | Method of psychogalvanic
reflex, Yerugin's method |
| 5 | Observations on orientation | 9 | Other |
- 4 Plant behavior Organs and responses Phyto-
psychology
- In general libraries prefer 581.18 Irritability and movement in plants 581.5 Plant
behavior and ecology

152 Sensation Sense perceptions

Sense, sensible perception and representation sense impressions sensible
knowledge Relations of sense perceptions in general and of each sense in
particular to other topics may be expressed by colon followed by number for
specific topic e. g. Esthetic relations of taste 152.4.7 or if preferred use 0001
divided like main classification e. g. 152.400017 Esthetic relations of taste.
See also physiology 612.84-88

- 01 Theory
- 012 Relation of sensation and sense perception
- 2 Sensational theory (Sensation and perception
identical)
- 3 Component theory (Sensation a component of
perception)
- 4 Correlativ theory (Each a component of the other)
- 015 Theories of sensation derived from the pure sciences
Divide like 500 e. g. 152.0153 Physical mechanic 152.0154 Chemical
- 016 Miscellaneous theories
- 1 Metaphysical theories
- 15 Psychologic theories
Eccentric projection theory etc
- 2 Deistic theories
- 6 Physiologic and psychophysical theories
Specific energy theory theory of specific disposition of sense organs,
etc

DECIMAL CLASSIFICATION

Passiv or receptiv faculty or functions

Sensat onal qualities or modalities

- 152.1 Vision Visual sensations**
Divide like 612 84 Physiologic optics
- .11 Fibrous tunics of eye**
- .111 Cornea Conjunctiva Anterior chamber**
- .115 Sclera**
- .12 Vascular tunics Iris Choroid Ciliary body**
- .121 Iris accommodation Pupillary reflex**
See also 152 14 for general psychologic papers on accommodation
- .122 Pupillometers**
- .122 Action of nervs and nerv centers on pupil**
- .123 Effects of light**
- .124 Action of chemuc substances on iris Atropin**
- .125 Choroid Eye pigments**
- .126 Ocular circulation Intraocular pressure**
- .1 Ofthalmometers**
- 13 Optic nerv Retina**
- .131 Physiologic morfology**
- 2 Ofthalmoscope**
- 3 Retinal circulation**
- 4 " purple**
- 5 Physiologic morfology of retina**
Bl ad spot yellow spot
- .132 Irradiation Simultaneous induction**
- 133 Color sense Chromatic sensibility**
- 01 Theory**
- 016 Miscellaneous theories of color sensation**
- 3 3-color theory (Young-Helmholtz)**
- 4 4-color theories**
- 43 Color-contrast theory (Hering)**
- 43 Gradation theory (Wundt)**
- 44 Genetic theory (Ladd Franklin)**
- 47 Zone theories**
- 472 Duplex or duple theory (von Kries)**
- 473 Theory of indirect values (Müller)**
- 1 Color sight**
Power to distinguish colors
- 2 Sensitiveness to color Color preferences**
- 4 Mixture of colors**
- 5 Contrast " "**
- 501 Theory**
- 6 Miscellaneous theories of color contrast**
- 61 Psychologic theory**
Deception of judgment (Helmholtz)
- 66 Physiologic theory (Hering)**
- 52 Simultaneous contrast**
- 53 Successiv "**

Entoptic phenomena

Purkinje's figures or images, Sanson's images

Persistence of retinal impressions

After images or after sensations Successive images

Positive

Negative or complementary

Field of vision Visual acuteness and sensibility

Photometry Photometric technique

Field of vision

Direct vision

Indirect vision Perimetry

Visual acuteness and sensibility

Retinal adaptation and fatigue

Twilight vision Purkinje phenomenon Purkinje spectrum Sensibility to contrast

Conduction in brain **Perception**

Histology of fibrillae Center of sight

Optic perceptions Localization of image in space

Binocular and monocular perception

Stereoscopy Binocular fusion and rivalry

Pseudoscopic vision

Perception of distance size and form

Perception of differences in height of surface

Theory

Miscellaneous theories of visual distance

Theory of identical points

projection

" distance as an optic sensation

Kinesthetic eye sensations

Accommodation strains

Convergence "

Parallax

Binocular parallax

Parallax due to head movements

DECIMAL CLASSIFICATION

152 137234	Associative aids	
1	Apparent size	6 Lights and shadows
2	" bright	
	ness	7 Relations among objects in field of vision
3	Apparent rapidity of movement	
4	Linear perspective	8 Cooperation of other senses
5	Haze and other atmospheric effects	9 Other
3	<i>Impression of color suggested by sound</i>	
	Auditus coloratus color ad auditum	See also 152 77 Synesthesia
4	Optic illusions	
	See also 152 73 Normal illusions	
41	Primary illusions	
412	Illusions of movement	
413	Proofreaders illusion	
414	Double images	
415	Geometric illusions	
	Of distance size direction, form etc	
or	Theories of geometric illusions	
016	Miscellaneous theories	
	Eye-movement theory	5 Dynamic theory
3	Perspective	7 Association or confusion theory
4		
2	Reversible perspective	
3	Illusions of extent	
	Müller-Lyer illusion etc	
4	Illusions of direction and angles	conflation and contrast
	Poggendorf Zollner twisted cord etc illusions	
5	Illusions of form	
6	" " area	
	Apparent size of planets at horizon etc	
42	Secondary illusions	
43	Mixt illusions	
5	Observations on those born blind	
8	Degenerations of optic nerve and fibrillae	
14	Refractory apparatus	Ocular refraction
	Dioptrics	
	See also 152 121 Iris accommodation	
141	Crystalline lens	
144	Aqueous humor	
147	Vitreous	"

- 152.15 Functional disorders or pathology of sight
 Blindness etc See also 617.75 Disorders of vision from medical viewpoint
- .151 Myopia .155 Daltonism Color
 .152 Hypermetropia blindness
 .153 Astigmatism See also 152.1331 Color sight
 .154 Presbyopia .156 Hemeralopia
- .16 Movements of eye
- .162 Binocular vision Convergence
 For perception see 152.13721 Binocular and monocular perception
- .163 Action of 3d cranial or oculomotor nerve
- .164 " " 4th " " trochlear "
 .166 " " 6th " " abducent "
- .168 Strabismus Diplopia
- .17 Palpebral and lacrimal apparatus
- .18 Tests of visual perception
- .2 Hearing Auditory sensations
 Divide like 612.85 Physiologic acoustics
- .201 Theory
- 2 Classification of sounds
- 22 Tones
- 23 Vocables
- 24 Noises
- 6 Miscellaneous theories of hearing
- 61 Psychologic theories
- 66 Physiologic "
 661 Resonance or sympathetic vibration theory (Helmholtz)
 662 Telephone theory (Rutherford, Lipps)
 663 Standing wave theory (Ewald, Lehmann)
 664 Advancing " " (Hurst)
 665 Propeld " " (ter Kuile)
 666 Displacement " (Meyer)
- .21 External ear: functions
- .24 Middle ear
- .25 Tympanic membrane or drumhead Tympanum
- .26 Eustachian tube
- .27 Bones
- .28 Internal ear
- .281 Conduction of sound in internal ear
- .282 Utricle Sacculle
- .283 Semicircular canals
- .284 Cochlea Corti's organ or fibers Spiral organ
 Basilar membrane
- .285 Acoustic nerve
- .286 Endolymph Perilymph

152.287	Acoustic perception	Conduction of acoustic excitation in brain
1	Auditory acuteness	
12	Tonal gaps and islands	
2	Auditory center in brain	
	See also 131 22552	Sensory functions of convolutions
3	Subjectiv. sensations	
4	Musical psychology	
	Distinction of tones and quality or tone color (timbre)	See also 781 1 Psychology of music
42	Tonal characteristics	
422	Pitch	
423	Loudness, strength or volume	
424	Character, quality, timbre, tone color or brightness	
	Clang-tint	
43	Analysis of tones	
432	Simple tones	
433	Compound tones or natural harmonics	Clang
2	Overtones	
3	Partial tones	
434	Combination or Tartini's tones	
1	1st order	
12	Difference or differential tone	
13	Summational tone	
2	Higher orders	
44	Consonance and dissonance	intervals
441	Theories of consonance and dissonance	
2	Theory of beats (Helmholtz)	
3	" " tonal fusion (Stumpf)	
4	Genetic theory (Moore)	
45	Melody and rhythm	
46	Sensitiveness to tone	Tone preferences
5	Binaural and monaural hearing	
51	Localization of sound in space	Estimation and effect of distance
512	Interaural differences of sound intensity	
513	Complexity of pitches	
514	Movements of head	
6	Sensibility of living beings to sound and vibrations	
	Otocysts	
7	Pathology	Deafness etc
8	Tests of auditory perception	
.288	Auditory reflexes	

PHILOSOPHY

152 3-4 Chemic senses

- 152 3 Smel Olfactory sensations Odor
See also 612 86 Smel in physiology
 31 Organs of smel
See also Anatomy 611 83115 612 86
 37 Olfactory perception Conduction in brain
 371 Olfactory acuteness
 372 " center in brain
See also 131 22553 Sensory functions of convolutions 612 82556
Seat of smel in physiology
 373 Subjectiv odor sensations
 374 Fusion of odors
 377 Pathology
 378 Tests of olfactory perception
 -4 Taste Gustatory sensations
See also 612 87 Taste in physiology
 41 Organs of taste
 413 Taste buds and papillae
 415 Function of lingual nerve
See also 612 8195 Special nerves, in physiology
 -417 Function of chorda tympani
See also 612 81977 Special nerves, in physiology
 419 Function of glossopharyngeal nerve
See also 612 8199 Special nerves in physiology
 47 Gustatory perception Conduction in brain
 471 Gustatory acuteness
 472 " center in brain
See also 131 22554 Sensory functions of convolutions, also in physiology 612 82557
 473 Subjectiv taste sensations
 474 Fusion of tastes
 -475 Contrast of tastes
 2 Simultaneous
 3 Successiv
 476 Relations of taste and smel
 477 Pathology
 478 Tests of gustatory perception

152 5 6 Somesthetic senses or qualities

- 5 Touch Tactil sensations Cutaneous senses
Haptic sensations
 51 Anatomy and physiology of tactil organs
See also 611 88 Anatomy 612 88 Physiology
 57 Tactil perceptions Conduction in brain
 571 Tactil acuteness
Epicritic and protopathic sensibility
 572 Tactil center in brain
See also 131 22555 Sensory functions of convolutions also in physiology 612 82559

DECIMAL CLASSIFICATION

- 152 573 Types of tactil perceptions
 - 2 Temperature
 - Hot and cold spots indifference zero or adaptation point paradoxical cold
 - 3 Pressure
 - Including all related phenomena e g tick ng itching contact resistance etc
 - 4 Pain
 - .574 Fusions of tactil sensations
 - Giving rise to sensations of roughness smoothness dryness wetness etc
 - .577 Pathology
 - .578 Tests of touch perception Esthesiometry
 - Divide like 152 573
- .6 Muscular, articular and organic senses
 - Equilibrium
 - 61 Anatomy and physiology
 - 67 Muscular, articular and organic perceptions
 - Conduction in brain
 - 671 Acuteness
 - 672 Brain centers
 - See also 131 22556 Sensory functions of convolutions also in physiology 612 82558
 - 673 Types
 - 5 Muscular and articular senses Power sense
 - Proprioceptive senses tendon and joint senses
 - 52 Kinesesthetic sensations movement activity
 - 521 Weight 525 Innervation
 - 522 Muscular and articular movement 526 Exteronity
 - 523 Effort and power 527 Stereognostic sense
 - Tendinous strain 528 Electric sense
 - 524 Shock 529 Other
 - 53 Sensations of position or relative attitude of limbs joints and muscles
 - 6 Equilibrium Static sense balance labyrinthic sense
 - 61 Sense of direction and orientation, general position
 - 62 Seasickness
 - 63 Vertigo Dizziness Giddiness Nystagmus
 - Past pointing
 - 9 Organic or visceral senses Internal touch
 - Feelings of health energy hunger thirst fatigue etc See also 157
 - Feelings May be divided like 612 according to organ experiencing sensation e g 152 673932 Stomach sensations
- 677 Pathology
- .678 Tests of muscular, articular and organic perceptions
 - Divide like 152 673

152.7	Perception	Perceptual apprehension	Pri-
	mary incorporations		
.72	Elements of perception		
.722	Sense presentation		
.723	Attention		
1	Theories as to nature of attention		
12	Pure mental activity		
13	Emotion or feeling		
14	Change in clearness of ideas		
15	Muscular attraction and adaptation		
2	Conditions of selection		
22	Objectiv		
222	Vividness or	224 Suddenness	226 Definit form
	intensity	225 Novelty	227 Color
223	Duration	Repetition	
23	Subjectiv		
232	Mental attitude	234 Expectancy	236 Psychic
233	Interest	235 Purpose	fringe
3	Varieties		
32	As to origin		
322	Innate or instinctiv	Primary	Natural
323	Acquired or derived	Secondary	Artificial
33	As to stimuli		
332	Sensorial	Objectiv	Explicit
333	Intellectual	Subjectiv	Implicit
34	As to development		
342	Involuntary	Passiv	Immediate
343	Voluntary	Activ	
	See also 159 Will		
2	Cause theory		
3	Effect	"	
344	Spontaneous or nonvoluntary		
4	Physical reactions		
41	Vasomotor, circulatory		
42	Respiratory		
43	Bodily attitude		
5	Clearness and strength of attention		
52	Clearness		
522	Focal	523 Marginal	
53	Strength or degree		
532	Concentrated	533 Divided	
6	Scope and duration		
62	Scope range or span		
63	Duration and fluctuation		
632	Sustained	633 Shifting	
7	Acquired inattention and pathology of attention		
8	Mesurements of attention		

- 152 724 Apperception
 .725 Preperception
 See also 155 2 Imagery
- 73 Errors of perception Normal illusions
 For abnormal illusions and hallucinations see 132 1 Imagery 133 2 Hallucinations illusions See also 152 1374 Optical illusions Dv de lke 152 2-6 e g Illusions of touch, Aristotle's illusion 152 735 Illusions of missing limbs 152 736
- 75 Special classes of perceptions
 .752 Perception of space and extent , Localization of objects
 See also 114 Space (metaphysics)
 01 General theory
 016 Miscellaneous theories of space perception
 3 Nature theories
 32 Psychic stimulus theories
 322 Theory of local signs (Lotze)
 323 " " circles of sensitivity (Weber)
 324 Kantian theory of intuitive space
 33 Extensibility theories (James etc)
 4 Empiric and genetic theories
 42 Associational theories
 43 Creative synthesis fusion in natural chemistry or complex local signs theories (Herbart Wundt etc)
 44 Unconscious inference theory (Helmholtz)
 45 Continuous differences " (Lipschitz)
- 2 Elements of space perception
 22 Distance
 23 Size
 24 Form
 25 Direction
- 3 Sensory factors in space perception
 Dv de lke 152 1-6 See also 152 13723 Binocular perception of distance size and form 152 28751 Binocular localization of sound in space
- 7 Pathology
 8 Measurements of space perception
- 753 Perception of time (duration) and rhythm
 See also 115 Time (metaphysics)
- 7 Pathology
 8 Measurements of time and rhythm perception
- 754 Perception of movement
 See also 116 Motion (metaphysics)
- 7 Pathology
 8 Measurements of movement perception

152 77

Synesthesia

See also 152 1373 Colord audition, 612 887 Synesthesia (physiology)

.7701

General theory

15

Theories of synesthesia derived from the pure sciences

Divide like 500, e g 152 770157 B ologic atavistic or ontogenetic theory

16

Miscellaneous theories

161

Psychologic theories

2

Affectiv association theory

3

Conditioned reflex "

166

Physiologic theories

2

Anastomosis theory

3

Nervous irradiation theory

.771

Visual Synopsie Photisms

2

Chromesthesia Pseudochromesthesia Chromisms

See also 152 1373 Colord audition

21

Colors accompanying visual perceptions of lines forms figures letters etc

23

Colord smells

24

" tastes

25

" tactil sensations

252

Temperature 253 Pressure 254 Pain

26

Colord muscular, articular and organic sensations

3

Figured or geometric audition geometric forms accompanying sounds of words

4

Number forms

.772

Auditory Phonisms

1

Of visual origin

3

" olfactory "

4

" gustatory "

5

" tactil "

52

Temperature

53

Pressure

54

Pain

6

Of muscular or organic origin

.773

Olfactory

Divide like 152 1 6 according to origin

.774

Gustatory

Divide like 152 1 6 according to origin

DECIMAL CLASSIFICATION

152 775	Tactil		
2	Temperature sensations accompanying other sensations		
	Divide like 152 1-6 according to origin		
3	Pressure sensations accompanying other sensations		
	Divide like 152 1-6 according to origin		
4	Pain sensations accompanying other sensations		
	Divide like 152 1-6 according to origin		
.776	Muscular, articular and organic		
	Divide like 152 1-6 according to origin		
.777	Personifications or dramatizations of ideas, letters, digits or words		
.8	Psychophysics	Psychometry	Quantitativ
	psychology		
	See also 151 2 Measurements		
.82	Psychophysics		
.821	Laws		
2	Threshold law		
3	Weber's law		
31	Interpretations of Weber's law		
312	Physiologic 313 Psychophysical 314 Psychologic		
4	Fechner's laws		
42	Logarithmic law		
43	Parallel law		
5	Breton's (Fullerton and Cattell's) parabolic law		
6	Merkel's law		
822	Principal formulas		
	Including variations and interpretations		
2	Fundamental formula		
3	Mesurement "		
4	Difference mesurement formula		
.823	Methods		
2	Gradation methods		
22	Method of least or just noticeable differences or minimal changes		
23	Method of mean gradation or equal sense distances		
3	Error methods		
32	Method of average error		
33	" " right and wrong (or true and false) cases or constant stimuli		
4	Method of equivalents		

152 824

Apparatus

Special apparatus adapted to study of each sense divided like 152 1 6

- 1 Optic photocsthesimeters tachistoscopes etc
- 2 Acoustic acousimeters etc
- 3 Olfactory olfactometers etc
- 4 Gustatory
- 5 Haptic or tactile
- 52 Temperature thermesthesimeters etc
- 53 Pressure esthesimeters weights etc
- 54 Pain algometers algesimeters etc
- 6 Muscular articular and organic

825

General classes of measurements

- 2 Stimulus threshold
- 22 Lower, minimum sensitivity or threshold of consciousness limen
- 23 Upper, maximum sensitivity
- 24 Range of sensitivity
- 3 Difference threshold Difference sensitivity
- 32 Just noticeable differences Units of sensation
- 33 " not noticeable "
- 34 More than just noticeable differences

826

Special fields of measurement

May be divided like 152 159 if one wishes to keep together e g Esthesiometry measurement of touch perception, 152 82635 but in general use better last with special field e g 152 578 Tests of touch perception

828

Applications

May be divided like main classification e g 152 828132 Sensitivity of the insane

83

Psychometry Psychochronometry Mental chronometry

8309

History

- 902 Astronomic period personal equation
- 903 Physiologic period velocity of nervous impulse
- 904 Psychophysical period duration of simple mental processes
- 2 Period of mental tests
See also 151 2
- 905 Psychologic period analysis of action consciousness

832

Apparatus

- 2 Measuring and recording instruments
Chronoscopes, chronometers stop watches, chronographs psychodimeters etc
- 3 Control instruments
Gravity chronometers control pendulums, control hammers etc
- 4 Stimulators
Special instruments adapted to stimulation of each sense organ
Divide like 152 1 6
- 5 Reaction instruments
Reaction keys etc

152 833	Methods
2	Observation methods
3	Recording "
32	Visual
33	Mechanic Chronographic
4	Statistical
834	Classes of reaction time
2	Physiologic or reflex reaction time
3	Psychophysical reaction time
32	Simple
322	Sensorial
323	Muscular or motor
324	Psychologic, central or reduced
33	Compound or complex
332	Discernment, cognition or perception time
333	Discrimination time
334	Choice time
335	Association time
2	Free
3	Controlled or constrained
32	Partly
33	Wholly
835	Elements of reaction time
2	Excitation of sensory nerv
3	Centripetal conduction
32	In sensory nerv
33	" spinal cord
4	Transformation of sensory into motor impulse
5	Centrifugal conduction
52	In spinal cord
53	" motor nerv
6	Releasing of muscular movement

152 836	Conditions affecting reaction time
2	Objectiv
22	Sense organ stimulated
23	Character of stimulus
232	Intensity 233 Quality 234 Duration
24	Character of reaction
242	Complexity 244 Accuracy
243	Rapidity 245 Extent
25	Character of instructions
26	Environmental influences
262	Physical temperature, atmospheric pressure, etc
263	Social
3	Subjectiv
31	Age
32	Sex
33	General attitude
34	Concentration and expectation
35	Practis
36	Helth
37	Fatigue
38	Drugs
39	Other
837	Special fields of measurement

838

Applications

Divide I ke ma n clas fication e g

152 838132 React on time of nsane

83852 " " in astronomy

See also 522 97 Personal equation astronomy

153 Understanding Cognition Knowledge Comprehension

See also 121 Theory of knowledge, 126 Consciousness 131 Physiologic psychology

Active or thinking faculty or functions Intellection

Ideation. Comprehensiv function or thinking about

.1 Conception Concept or notion, idea, meaning

Relations to other psychologic topics may be exprest by using colon to indicate relation e g

153 1 152 7 Conception and perception

153 1 153 4 " " reflection

153 1 155 " " imagination

or if preferd, use 153 10005 divided like 150, e g. Conception and perception
153 1000527

.101 General theory

- 6 Miscellaneous theories of conception
- 62 Nominalist
- 63 Conceptualist
- 64 Sensationist
- 66 Physiologic
- 662 Kinesthetic or ideomotor

.11 Origin

.112 Innate

.113 Acquired

.12 Forms

.122 Simple

.123 Complex

.13 Types

.132 Of individuals or particulars, concrete

.133 " generals or universals, abstract

.14 Growth or development

.17 Pathology

.18 Mesurements

153.2

Association

Association of ideas Psychologic connections Secondary and must incorporations See also 154 Memory and learning

21

Laws of association

.211

Primary

2

Contiguity or continuity in time and space

External association

22

Simultaneous

23

Successiv

3

Similarity

4

Contrast

.212

Secondary

2

Primacy

3

Frequency or repetition

4

Recency

5

Vividness

6

Emotional congruity

7

Interest

8

Rhythm

9

Other

22

Phystologic mechanism

23

Types

232

Redintegrativ, compound or impartial

Redintegration

233

Ordinary or mixt

234

Similar

235

Dynamic

236

Serial

27

Pathology

28

Mesurements

.3

Abstraction Selection Comparison

301

General theory of abstraction

6

Miscellaneous theories

62

Generic image theories

63

Comparison or distinction of reason theories

Law of dissociation by varying con om tants

64

Attention and apperception theories

65

Motor theories

32

Determining factors

322

Formulation of problem

323

Fixt trend of reproductiv tendencies

.324

Effectivness or vividness of stimulus

DECIMAL CLASSIFICATION

153	33	Types
	.332	Discrimination of differences
	.333	Recognition of similarities
	.34	Products
	.342	Topics' aspect topics
	.343	Exemplifying images, symbols, receipts
	.344	Classes or concepts: generalizing topics
	37	Pathology
	38	Mesurements
	.4	Reflection
		Indicatory transfers flashes attitudes postures awareness cortical set (All these ar terms used to describe what goes on during process of reflection) See also 753 72 Self-consciousness
	47	Pathology
	48	Mesurements
	.5	Judgment
	53	Classification Types
	.532	As to form
	2	Existential
	3	Attributiv or predicativ
	32	Hypothetic or conditional
	33	Categoric
	34	Disjunctiv
	.533	As to method
	2	Analytic
	3	Synthetic
	.534	As to nature of response
	2	Implicit
	3	Orientiv
	4	Predictiv
	.54	Formation of judgments
	.542	Immediate apprehension
	.543	Communication
	544	Reasoning or thought
	.57	Pathology
	.58	Mesurements

- 153.6 Reasoning Induction and deduction Infer-
ence
Elaborativ function or thinking out. Problem solving See also 160 Logic
- .62 Elements
.622 Problem or task
.623 Elaboration
.624 Solution
.63 Types
.632 Elementary
Reasoning from 2 particulars to a 3d particular
.633 Inductiv
.634 Deductiv
.64 Processes
.642 Mental
.643 Physical
.65 Use of simbols or secondary meanings
.652 Thought and language Imageless thought
.66 Products or results
.662 Knowledge of reality
.663 Beliefs
2 Faith
3 Doubt
4 Disbelief
.664 Values Worth
.665 Meanings
.67 Pathology
.68 Mesurements
.7 Consciousness Personality
Personal identity See also 126 Metaphysics 137 Mind and body, 233 6
Doctrin
.72 Development or emergence of personality
Self consciousness The ego Self and not self self and body, inner self,
self as person self and society See also 152 1523 Dissociation of personality,
depersonalization, dual and multiple personality
.77 Pathology
.78 Mesurements

153.8

Unconsciousness Depth psychology

Psychology of the unconscious coconscious, foreconscious, subconscious
 Subliminal consciousness automatism See also 127 Metaphysics,
 130 16322 Mind body relations 133 32 Divination, 133 93 Spiritism,
 158.4 Automatic movements

.82

Sistems or schools of depth psychology

See also 131.34 Psychoanalysis

.822

Psychologic school

Prince Rivers McDougall etc

.87

Pathology

.88

Mesurements

154

**Memory and lerning Reproductiv power
Mnemonic apprehension**

See also 155 Imagination 132 8 Mnemonic derangements

.01

General theory

.015

Theories of memory based on the pure sciences

Divide like 500, e. g. 154.0157 Biologic theories

016

Miscellaneous theories

1

Metaphysical theories

3

Representation "

32

Image theories

33

Assimilation theories

4

Presentation theories

42

Physical or physiologic theories

43

Objectiv "

5

Subjectiv or function theories

52

Psychophysical function theories

53

Psychic " "

532

Mental habit theories

533

" disposition theories

534

Motor and emotion "

2

Synergy theories

4 Self recognition theories

3

Attention "

5 Psychoanalytic "

07

Study of memory

072

Experimental study

5

Methods

58

Special methods

581

Lerning method

582

Saving "

583

Method of paired associates of hits and misses or scoring**method**

584

Memory span method

585

Method of retained members

586

Reproduction

2

By description

4

" drawing

587

Identification or recognition

588

Comparison and selection

589

Other

.078

Materials or apparatus

Nonsense syllables, objects etc

154	I	Mnemonics	Methods of aiding memory
		Mnemonotechny mento y tra ñing mnemon ic devices memory s stems mnemon ic technic	
12		Ingenious or artificial methods	
122		Metric	
123		Topical or local	
124		Pictorial	
125		Figure-alfabet	
126		Progressiv suggestion or intermediate associa- tions	
13		Mechanic or repetition methods	
14		Judicious or logical methods	
2		Types of memory	
22		Sensimaginal	Memory images
221		Visual	224 Gustatory
222		Auditory	225 Tactil
223		Olfactory	226 Motor
23		Organic	
24		Affectiv or emotional	
25		Abstract	
3		Memory processes	
32		Retention	Retentivness
321		Basis of retention	
2		Mental state	
3		Physiologic or neural trace disposition	
33		Reproduction and representation	Recall
		Revival	
		Remembering	
331		Conditions or causes	
2		Perseveration	
3		Interest	
4		Association	Suggestion
333		Types	
2		Free or spontaneous	
3		Determind or voluntary	
		Reco ect on eminiscence	
32		Empiric	
33		Logical	

154 334	Kinds of stimuli	
2	Perceptions	
3	Images	
4	Ideas	
5	Emotional complexes	
.335	Degrees of recall	
2	Partial or selectiv	
3	Complete	
336	Interferences in recall	
34	Recognition or identification	
342	Factors in recognition	
2	Mental associations	
22	Past reference	
23	Localization	
24	Personal ownership	
3	Affectiv associations or feelings	
32	Of familiarity or unfamiliarity	
33	" correctness or incorrectness	
34	' certainty or doubt	
4	Kinesthetic or motor associations	
.343	Types of recognition	
2	Explicit or perceptual direct or immediate	
3	Implicit or ideational, indirect or mediate	
.344	Forms of recognition	
1	Individual identity	6 Self recognition
2	Material "	7 Relativ recognition
3	Imaginal recognition	8 Absolute "
4	Clas '	9 Other
5	Formal or logical recognition	

154.4

Learning or acquisition

See also 158.433 Motor learning

Methods**Mechanic**

Practis and repetition

Trial and error

Imitation

Logical

Association

Discrimination

Types

Memorizing or rote learning

By parts

" wholes

Aids to learning

General questions

Attention and concentra-
tion

Interest

Will to learn

Rhythmic presentation

Types of learnersMay be further subdivided like 15.1-6 See also 137.45 Types of
personality

Visual

Auditory

Rate and curv of learning

Effect of rate of learning on memory

Transference of learning

Cross education

.446 Rest periods

.447 Number and
frequency of
repetitions

.448 Recitation

.449 Other

455 Tactil

456 Motor

42

.423

2

3

4

.424

2

3

.43

.432

2

3

.44

.441

.442

.443

.444

445

.45

451

.452

.46

.462

.47

- 154.5 Forgetting and lapses of memory**
 See also 132.8 Mnemonic derangements
- .51 Causes
 - .512 Inhibition
 - .513 Selection
 - .514 Weak associations
 - " or disturbed neural paths and centers
 - .53 Rate and curv of forgetting
 - .54 Degree of forgetting
 - .55 Value " "
 - .7 Pathology of special memory processes
 - See also 132.8 Mnemonic derangements
 - .73 Pathology of memory processes Divide like 154.3
 - " " learning "
 - " " forgetting "
 - .75
 - .8 Measurements of memory
 - Divide like 154.7
- 155 Imagination Creativ power Imaginal apprehension**
 See also 154 Memory
- .1 Fancy Imaging power Free or uncontrold imagination
 - See also 135.37 Day dreams
 - .2 Imagery
 - See also 152.725 Preperception
 - .22 Physiology of imagery
 - .23 Types " " Sensimaginal qualities
 - 155.231-236 may be divided like 152.1-6
 - .237 Verbal .238 Eidetic
 - .24 Images and sense perceptions compared
 - .25 Localization of images
 - .3 Forms of imagination
 - .32 Reproductiv or representativ
 - See also 154 Memory
 - .33 Productiv or anticipatory
 - .332 Constructiv .333 Creativ
 - .4 Limits of imaginativ process
 - .6 Applications
 - Divide like main classification e.g.
 - 155.65 Imagination in science
 - 155.67 " art
 - 155.68 " literature
 - .7 Pathology
 - .8 Measurements

- 156 Intuitiv faculty or power Innate reason
 Implicit apperception innate ideas, insight, intuition. See also 143 Intuition
 alism, 153 6 Reasoning 153 8 Unconsciousness
- .2 Intellectual or speculativ intuition
 See also 151 1 Genius
- 22 Direct cognition
- 222 Of the self (internal sense)
- 223 ' " not self (common sense)
- 23 Direct judgment
- 3 Sense intuition
- 32 Direct perception
- 33 " apprehension
- 4 Motor intuition
- 7 Pathology
- 8 Mesurements

EXECUTIV FUNCTIONS

157 Emotions Affections Sensibility

Feelings See also 157 6739 Organic senses For relations to other psychological topics see column to indicate relation e g Emotion and memory 157 154, Emotion and intellect 157 158 or if preferred, use 157 0005 divided like 150, e g Emotion and memory 157 00054

- 01 General theory
- 016 Miscellaneous theories of sensibility and emotions
- 2 Intellectualistic theories
 Associationist etc
- 3 Psychomechanic theories
 Dynamic struggle among mental processes etc
- 4 Psychophysical theories
- 4* Biogenetic
 Affective aspect of instincts etc
- 43 Identified with desire
- 6 Physiologic theories
- 62 Pathologic
- 63 Sensationist
- 632 James Lange peripheral or vasomotor
- 633 Identified with organic sense
- 64 Cerebral or central
 Resistance in neural processes etc

- 157 07 Study of feelings and emotions
 - c72 Experimental study
 - 5 Methods
 - 53 Objectiv methods
 - 532 Method of impression
 - 533 " " expression
 - 58 Special methods
 - 582 Genetic method
 - 583 Questioning method
 - 584 Graphic "
 - 585 Association "
 - 586 Psychogalvanic "
 - .1 Emotional states ~
 - 12 Sentiments
 - e g Psychology of the beautiful esthet cs better in 701 17
 - 13 Moods
 - .2 Expression of emotions
 - See also 138 Physiognomy 158 Inst nets
 - 21 Principles of expression
 - 212 Law of utility or serviceable associated actions
 - 213 " " analogous feeling stimuli
 - 214 " " antithesis
 - 215 " " direct nervous discharge
 - 22 Forms of expression
 - 222 Glandular
 - 2 External
 - 3 Internal
 - 223 Vascular
 - 2 Circulatory
 - 3 Respiratory
 - .224 Muscular
 - Laughter gesture etc
 - .23 Recognition of emotions

- 157.3 Varieties of emotions**
 As no authoritative scheme for classifying emotions has yet been devised the individual emotions may be arranged alphabetically
- .4 Passions or uncontrolled emotions**
- .5 Properties of sensibility**
- 52 Affective quality or tone, feeling tone**
- .521 One-dimensional theory**
 Pleasure-pain (hedonic tone) pleasant-unpleasant, agreeable-disagreeable or positive-negative
- .522 Bidimensional theory**
- 2 Pleasure-pain (hedonic tone)**
- 3 Restlessness quiescence**
- .523 Tridimensional theory**
- 2 Pleasure pain (hedonic tone)**
- 3 Excitement-depression (calm)**
- 4 Strain relaxation or tension relief**
- 53 Strength, intensity or vividness**
- 54 Rhythm and duration**
- 55 Content**
- .7 Pathology**
- 8 Measurements**
- 158 Conation and movement Instincts Ap-
 petites Motor functions**
 Act on. Drives
- .1 Conation and feeling**
- 12 Hedonic view feeling precedes conation**
- 13 Hormic " conation " feeling**
- .2 Physiology of movement**
 See also 612 821 Physiology
- 22 Organs**
 See also 612 7 Physiology
- 23 Functional laws**
- 232 Dynamogenesis**
- 2 Law of diffusion**
- 3 " " inhibition**
- 4 " " specific motricity**
- 3 Types of movement**
- 4 Automatic or involuntary movements**
- 42 Innate**
- 422 Tropisms**
- 423 Reflexes**
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158 424	Instincts
1	Theories of instinct
11	Philosophic
12	Theologic
13	Mechanistic
14	Hormic
2	Laws of instinct
22	Law of individualization of instincts
23	" " transitoriness " "
24	" " survival " "
25	" convergence " tendencies
26	" inhibition " "
3	Physiology of instincts
	See also 612 8213 Physiology
4	Appetites and impulses tendencies dispositions desires
41	Purpose or basis
42	Form
43	Degree or intensity
5	Varieties
	Arrange alphabetically Combativeness, imitation mating, sociability etc. For play see 790 1
7	Pathology
8	Measurements of instinct
43	Acquired Habits
432	Physiology of habit Law of habit
433	Motor learning Acquirement of skill
	See also 154 4 Learning
3	Methods
32	Repetition Exercise Drill Practice
33	Neural association Ligature (dynamic association)
4	Results
42	Simplification of movements
422	Emphasis and fixation of useful or necessary movements
423	Elimination and inhibition of useless or unnecessary movements
43	Diminution of conscious attention
434	Forms of habituation
2	Central
3	Contributory
4	Independent or bifurcate
435	Right and left handedness
437	Pathology
438	Measurements of habit

- 158 5 Voluntary or consciously controlled movements
 See also 159 Will
- 57 Pathology
- .58 Measurements
- .7 Work and fatigue
- 72 Work or fatigue curve
 See also 154.45 Curve of learning
- .721 Initial spurt
- .722 Warming up
- .723 Plateaus Breathing places
- .724 Decline
- .725 End spurt
- .73 Factors affecting efficiency
- .731 Rest periods .736 Food and fasting
- 732 Change of work .737 Loss of sleep
- .733 Distractions .738 Climatic conditions
- .734 Incentives .739 Other
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- 74 Elements in fatigue
- 741 Metabolic fatigue 745 Interference
- 742 Transfer of metabolic .746 Refractory period
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- 743 Fatigue sensations
- 744 Sensory adaptations
- 77 Pathology
- 78 Measurements
- 8 Special motor functions
- 82 Locomotion
 Walking running etc See also 612 76 Physiology
- 83 Vocal expression
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- 84 Graphic expression
 Reading writing drawing etc. Prefer 372 4 Reading 372 51 Writing
 372 52 Drawing

- 159 W11 Volition
- 01 General theory
 - 016 Miscellaneous theories
 - 2 Intellectualistic
 - 3 Absolute
 - 4 Heterogenic
 - 42 Associationist
 - 43 Genetic or evolutionary
 - 44 Physiologic
 - 5 Emotional or affectiv
 - .1 Freedom of wil
 - 12 Elements of free action
 - 122 Alternativ
 - .123 Deliberation
 - .124 Choice Decision Resolv
 - 2 Effortless
 - 22 Reasonable
 - 23 Accidental
 - 232 Determined from without
 - 233 " " within, explosiv
 - 24 Resulting from change of mood
 - 3 Effortful Resolute Obstructed
 - Feeling of effort See also 152 671523 Sensations of effort and power
 - 13 Responsibility
 - 14 Determination
 - .2 Voluntary human action
 - See also 158 5 Voluntary movements
 - 22 Types
 - 222 Ideomotor
 - 223 Deliberate
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 - .232 Kinesthetic ideas
 - 2 Resident
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 - 233 Feeling of innervation
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 - .3 Habitudes
 - adaptation Routines Accommodation an
 - See also 158 43 Habits
 - .4 Intentions Adjustment
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 - .7 Motives Desires
 - .8 Pathology
 - Mesurements

160 Logic Dialectics

See also 153.6 Reasoning power For logic of chance see 519 Probability

161 Inductiv**162 Deductiv****163 Assent Faith**

See also 234.2 Doctrinal theology

164 Symbolic Algebraic

Logical machines

Logical topics

165 Sources of error Fallacies**166 Syllogism Enthymeme****167 Hypotheses****168 Argument and persuasion****169 Analogy Correspondence**

See also 219 Natural theology

170 Ethics: theoretic and applied

Many topics in applied ethics occur also in law specially in 343 Criminal law

See also 377.2 Ethical education

1 2 Compends 3 Dictionaries 4 Essays 5 Periodicals
6 Societies Society for ethical culture 7 Study and teaching 8 Polygraphy
9 History**171 Theories Philosophy of ethics**

Theories of the basis of morality

.1 Authority Will of God Christian

For rules of Christian conduct see 243

.2 Intuition Moral sentiment

See also 143 Intuitionism, 156 Intuitive faculty

.3 Perfection**.4 Happiness Hedonism****.5 Utilitarianism****.6 Conscience Casuistry****.7 Evolutionary or educational****.8 Altruism****.9 Egoism****172 State ethics****.1 Individuals and the state Duties of citizens Patriotism**

See also 320 Political science

.2 Duties of public officers Official corruption**.3 Relations to church**

Duty of state as to support and protection of church

See also 261.7 The church 323 Church and state, 373 Persecutions

.4 International ethics Peace and war

See also 341 International law

173 Family ethics

- .1 Marriage and divorce See also 347 6 Family law
- .2 Polygamy and monogamy
- .3 Duties of husbands and wives
- .4 Infanticide
- .5 Duties of parents
- .6 Duties of children
- .7 Home life
- .8 Masters and servants See also 647 Servants, 331 Labor
- .9

174 Professional and business ethics

- .1 Clergy
- .2 Physicians
- .3 Lawyers
- .4 Merchants Business men Business virtues and vices
- .5 Speculation Mammonism Avaris
- .6 Gambling Lotteries
- See also 175 below
- .7 Honor, honesty Dishonesty
- Compact promiss chicanery trickery
- .8 Employers and employe
- .9

175 Ethics of amusements For amusements see 700

- .1 Public shows and diversions Rinks, circuses, etc.
- .2 Theater Opera Private theatricals
- .3 Dancing Balls Round dances
- .4 Games of skill: billiards, chess, etc.
- .5 Games of chance: cards, dice, etc.
- .6 Prize fighting Animal fighting: bull, dog, cock, etc.
- .7 Racing: horse, boat, pedestrian, wheel, etc.
- .8 Novel reading
- .9 Betting Poolselling See 174 6

176 Sexual ethics

- .1 Chastity
- .2 Celibacy See also 253 Celibacy of clergy
- .3 Continence
- .4 Solitary vice
- .5 Social evil See also 258 Parish care of fallen
- .6 Adultery -
- .7 Immoral art
- .8 Immoral literature
- .9

177 Social ethics

- .1** **Curtesy**
 See also 195 Et quet
- .2** **Conversation Gossip**
 See also 374 : Self culture
- 3** **Truth Slander Flattery**
- .4** **Dress Display Sumptuary legislation**
- .5** **Caste Class feeling Wealth and rank**
 See also 294 Brahmanism, a d 323 31 Nobility wealthy class
- .6** **Friendship Courtship Coquetry**
- .7** **Philanthropy Humanity**
- .8** **Solitude vs social obligations**
- .9**

178 Temperance Stimulants and narcotics

May be divided by form of use see Index table 2 following Relative index
 See also 137 72 *D psoriasis, 331 84 Labor ng*
 classes 613 3 Beverages 013 8 Nervous system

- .1** **Use of intoxicating drinks Beer drinking Medicinal use**
 See also 616 861 Alcohol sm and Alcohol Alcohol c in Relative index
- 2** **Total abstinence vs temperance**
- 3** **Social drinking Wine at table Treating**
- .4** **Traffic in intoxicating drinks License High license**
 See also 330 276 Taxation
- 5** **Prohibition**
 Including legal discussion of prohibition See also 329 81 Prohibition party
- 6** **Inebriates**
 Discussion reformation For reformatories and inebriate asylums see 362 13
- .7** **Tobacco**
- .8** **Opium Hashish Chloral Ether and other drugs**
- .9** **Gluttony and other intemperance**

179 Other ethical topics

- .1** **Morals of the press Newspapers**
 See also Journalism 070 11
- .2** **Cruelty**
 Societies for preventing cruelty to children and also general humane societies covering work for both children and animals See also 173 4 Infant cide 331 3 Labor of children
- 3** **Cruelty to animals**
- 4** **Vivisection**
 See also 614 22 Vivisection laws
- .5** **Oaths**
- .6** **Heroism Bravery Cowardis**
- .7** **Life Dueling Suicide**
 See also 304 8 Dueling as a custom
- 8** **Pride Covetousness Envy Anger Sloth Jealousy Hate**
 and other vices
- .9** **Humility Liberality Gentleness Patience Diligence**
 Charity Modesty, and other virtues

180 Ancient and Oriental philosophers

See also 921.9 Biography of ancient philosophy

181 Oriental philosophers

- .1 Chinese: Confucius, Mencius
- .2 Egyptian
- .3 Jewish: kabala; Philo Judaeus, Maimonides
- .4 Indian: gymnosophists
- .5 Persian Sufism
- .6 Chaldaean
- .7 Sabeism
- .8 Phenician
- .9 Syrian

182 Early Greek philosophers

- 1 Ionic: Thales, Anaximander, Anaximenes
Materialist c. Things are as they seem
- .2 Italic or Pythagorean Half idealistic
- .3 Eleatic: Xenophanes, Parmenides, Zeno, Melissus
Idealist c. Existence denied Thought is the only reality
- 4 Heraclitus
- .5 Empedocles
- .6 Atomistic
- 7 Democritus
- .8 Anaxagoras
- .9 Other early Greek

183 Sophistic and Socratic philosophers

- .1 Sophistic: Protagoras, Gorgias, Prodicus, Hippias
- .2 Socrates
- .3 Socratic
- .4 Cynic: Antisthenes, Diogenes, Crates, etc
- 5 Cyrenaic: Aristippus, Hegesias, etc
- 6 Megaric: Euclid, Eubulides, Diodorus, etc.
- .7 Elian and Eretrian: Phaedo, Menedemus, etc

184 Platonic Older Academy

- .1 Plato
Class has works preferably in 883.4 but discussion of his philosophy here
- .2 Speusippus
- .3 Xenocrates

185 Aristotelian Peripatetic Lyceum

- .1 Aristotle
Class has works preferably in 883.5 but discussion of his philosophy here
- .2 Theophrastus
- .3 Eudemus
- .4 Strato

- 186 Pyrrhonist New Platonist
 .1 Pyrrhonism Skepticism Pyrrho, Timon
 .2 New Academy Arcesilaus, Carneades, Plutarch
 See 888 8 Plutarch's works
 .3 Eclecticism: Cicero See 875 4
 .4 Alexandrian, Neo-Platonic Philo of Larissa, Plotinus, Pro-
 clus Porphyry, Iamblichus See 239 4 Apologetics 273 1 Heretics
- 187 Epicurean Epicurus Lucretius See also 871 1

- 188 Stoic
 .1 Zeno
 .2 Cleanthes
 .3 Chrysippus
 .4 Panaetius
 .5 Posidonius
 .6 Seneca See 878 3 872 6
 .7 Epictetus
 .8 Marcus Aurelius
- 189 Early Christian and medieval philosophers
 1 Gnosticism See 273 1 Basilides Marcion See 273 2 Manicheism
 2 Patristic Tertullian, Augustine, Clement, Origen
 3 Arabian Avicenna, Averroes
 4 Scholastic Scotus, Aquinas, Anselm, Abelard
 5 Mystic Reuchlin, Cornelius Agrippa, Paracelsus, Servetus,
 Bohme

190 Modern philosophers

See also 921 1 to 921 8 Biography of philosophy or lives may be put here with works
 with references on y under 920 Biography Philosophy works are put here not under
 the School or System to which the author may be thought to belong See note
 under 140

- 191 American and Canadian philosophers
 .1 Jonathan Edwards 1703-58
 .2 Orestes A. Brownson 1803-76
 .3 Ralph Waldo Emerson 1803-82 See 814.35
 .4 Laurens P. Hickock 1798-1888
 .5 James McCosh 1811-94
 .6 Noah Porter 1811-92
 .7 Francis Bowen 1811-90
 .8 William Torrey Harris 1835-1909
 .9 Other American philosophic writers

192 British philosophers

English Scotch Irish Welsh

- | | | | |
|----|-----------------------------------|-----------|---------------------------|
| .1 | Bacon | 1561-1626 | See 144 Empiricism |
| .2 | Locke | 1632-1704 | See 145 Sensationalism |
| .3 | Berkeley | 1685-1753 | See 141 Idealism |
| .4 | Hume | 1711-76 | See 824 64 English essays |
| .5 | Reid | 1710-96 | See 143 Intuitionism |
| .6 | Dugald Stewart | 1753-1828 | |
| .7 | John Stuart Mill | 1806-73 | |
| .8 | Spencer | 1820-1903 | |
| .9 | Other British philosophic writers | | |

193 German and Austrian philosophers

- | | | | |
|----|----------------------------------|-----------|-----------------------------|
| .1 | Leibnitz | 1646-1716 | |
| .2 | Kant | 1724-1804 | See 142 Critical philosophy |
| .3 | Fichte | 1762-1814 | See 141 Idealism |
| .4 | Schelling | 1775-1854 | |
| .5 | Hegel | 1770-1831 | |
| .6 | Schleiermacher | 1768-1834 | |
| .7 | Schopenhauer | 1788-1860 | See 149 6 Pessimism |
| .8 | Lotze | 1817-81 | |
| .9 | Other German philosophic writers | | |

194 French philosophers

- | | | | |
|----|----------------------------------|-----------|---------------------|
| .1 | Descartes | 1596-1650 | See 144 Empiricism |
| .2 | Malebranche | 1638-1715 | |
| .3 | Condillac | 1715-80 | |
| .4 | Rousseau | 1712-78 | |
| .5 | Diderot | 1713-84 | |
| .6 | Lamennais | 1782-1854 | |
| .7 | Cousin | 1792-1867 | See 148 Eclecticism |
| .8 | Comte | 1798-1857 | See 146 Positivism |
| .9 | Other French philosophic writers | | |

195-198 may be divided like 945-948, e.g. 196 9 Portuguese philosophers 198 3 Swedish

199 Other modern philosophers

Divided like 940-999 except for those specially provided for in 101 198 and for modern Oriental philosophers (181) e.g. 199 438 Polish philosophers 199 492 Dutch 199 85 Peruvian

The heads of 180-199 are for discussions of the systems of these men and for their philosophic works not clearly belonging elsewhere not for all their works. Mills Logic is 160 not 192 7 but has *complete works* bound together are 192 7. Plato and Aristotle have individual numbers 828 4 and 5 where their works are more useful than in 184-5 because of their classic prominence

Religion

200 Religion General works

201 Philosophy, theories, methods

202 Compendis, outlines, systems

203 Dictionaries, cyclopedias

204 Essays, lectures, disputations, addresses

See also 252 Sermons

205 Periodicals, magazines, reviews

206 Societies transactions, reports etc.

General conferences Societies whose work is largely done by paid officers most members merely contributing money e.g. Pan-evangelical Alliance Bible and tract societies Put history reports etc. here but the publications of course go with subject

207 Education theologic seminaries, training schools Divided like 910-999

208 Polygraphy collected works, extracts, etc

Many collections go under a more specific heading e.g. 210

209 History of religion

Central including ecclesiastical antiquities statistics etc See also 270 for Christian religion and 274-279 for Christian antiquities of special countries See also note under 90

210 Natural theology

Concerns evidence in nature exclusive of revelation also Christian or skeptical discussion of specific topics (211-214 216-218) For general doctrine of Christian theology see 230 Apologetics subdivided according to kind of criticism

211 Deism Atheism Theism

Skepticism Infidelity Rationalism etc

Atheism denies existence of God Deism accepts existence but denies revelation and rejects Christianity Theism believes in a god supernaturally revealed e.g. Judaism Mohammedanism Buddhism, etc Arguments from nature in support of any of these views go here

See also 231 Christian theism 239 Apologetics 273 8 Agnosticism heresy 149 7 Agnosticism

212 Pantheism Theosophy See 147 Pantheism 149 5 Origins of

213 Creation See 113 Cosmology Evolution See 575 Science

From religious viewpoint attempts to harmonize Genesis and geology See also metaphysics 113 Cosmology and pure science 575 Evolution

214 Providence See 231 5 Doctrines Theodicy See 231 8 for Christian view
Fatalism

- 215 Religion and science See 239 8 Apologetics
 Antagonism or reconciliation between science and Bible religion. Po and con-
 arguments by scientists Bridge-water treatises For creation see 213
- 216 Good Evil Depravity See 149 6 Pessimism 233 2 Sin
- 217 Worship Prayer
 Tests of efficacy of prayer prayer-page See also 264 1 Prayer 248 Person 1 rel on
- 218 Future life Immortality Eternity
 See 237 Future state 128 The soul
- 219 Analogies Correspondences See also 169 Logic

220 Bible General works

For similar works limited to Old or New Testament or individual books see
 specific headed below

- 1 Canon Inspiration Authorship Prophecy
- 2 Concordances Analyses
- 3 Dictionaries Cyclopedias
- 4 Original texts and early versions Codices
 Heds for old and new testaments are given as they are also used for 221 and
 225
- 42 Chaldee
- 43 Syriac
- 44 Hebrew
- 45 Samaritan
- 46 Other Semitic Ethiopic Arabic etc
- 47 Latin, Itala Vulgate
- 48 Greek, Septuagint Aquila Symmachus Theodotion
 Hexapla
- 49 Other early versions Armenian Coptic Gothic etc.
 220 4 and 220 5 are pure texts A Hebrew Bible with commentary goes in
 220 7 with reference from 220 44
- 5 Versions of Bible Polyglots Divided by languages like 400
 These are translations from the original Hebrew and Greek Translations from
 other early texts go with them in 220 4 e g an English translation of the Syriac
 goes in 220 43
- 6 Hermeneutics Exegesis Symbolism Typology
- 7 Commentaries on whole Bible, and annotated editions
 For notes etc on portions of the Bible see the most specific headed in 221-229
- 8 Special topics
 Divided like general Classification e g natural science of the Bible in 220 85
- 9 Biblical geography and history
- 91 Biblical geography description etc
 See 915 69 913 33 Palestine
- 92 Scriptural biography
 See also 922 1 232 9 Lives of Christ
- 93 Antiquities archeology
 See also 296 Jewish religion 933 History of Jews
- 94 Chronology
- 95 History
 See 933 Jews

221 Old Testament: texts, introductions, etc

Divided like 220, e. g. 222.7 Commentaries on Old Testament

222 Historical books

- .1 Pentateuch
- 11 Genesis
- 12 Exodus
- .13 Leviticus
- .14 Numbers
- .15 Deuteronomy
- 16 Decalog
- .2 Joshua
- .3 Judges and Ruth
- .4 Samuel
- .5 Kings
- .6 Chronicles
- .7 Ezra
- .8 Nehemiah
- .9 Esther

223 Poetic books

- .1 Job
- .2 Psalms
- 3 Authorship and chronology
- 4 Special groups
 - Messianic, Greater Hallel Lesser Hallel, Vesper psalms Penitential 6, 32, 38 51 102 130, 143 Hebrew five books Psalms 1-41 42-72, 73-89 90-100, 107 150
- 5 Liturgic use by Christians Metrical versions
 - See 264 038 Anglican psalter, 245 Hymnology
- 6 Commentaries on psalms
- .7 Proverbs
- .8 Ecclesiastes
- .9 Song of Solomon, or Canticles

224 Profetic books

- .1 Isaiah
- .2 Jeremiah
- .3 Lamentations
- .4 Ezekiel
- .5 Daniel
- .6 Hosea
- .7 Joel
- .8 Amos

- 224 9 Other minor prophets
- 91 Obadiah
- 92 Jonah
- 93 Micah
- 94 Nahum
- 95 Habakkuk
- 96 Zephaniah
- 97 Haggai
- 98 Zechariah
- 99 Malachi
- 225 New Testament texts, introductions, etc.
Divided like 220
- 226 Gospels and Acts
- 1 Harmonies
- 2 Matthew
- 3 Mark
- 4 Luke
- 5 John
- 6 Acts of the apostles
- 7 Miracles
- 8 Parables
- 9 Lord's prayer
- 227 Epistles
- 1 Romans
- 2 Corinthians 1
- 3 Corinthians 2
- 4 Galatians
- 5 Ephesians
- 6 Philippians
- 7 Colossians
- 8 Other Pauline epistles
- 81 Thessalonians 1
- 82 Thessalonians 2
- 83 Timothy 1
- 84 Timothy 2
- 85 Titus
- 86 Philemon
- 87 Hebrews
- 9 Catholic epistles
- 91 James
- 92 Peter 1
- 93 Peter 2
- 94 John 1
- 95 John 2
- 96 John 3
- 97 Jude

- 228 **Apocalypse Revelation**
- 229 **Deuterocanonical books Apocrypha**
 Pseudepigrapha
- .1 **Esdras 1, 2**
- .2 **Tobit, Judith, Esther**
- .3 **Wisdom**
- .4 **Ecclesiasticus**
- .5 **Baruch, Epistle of Jeremy, Song of the three children**
- .6 **Story of Susanna, History of Bel and the dragon, Prayer
 of Manasses**
- .7 **Maccabees 1, 2, 3, 4**
- .8 **Pseudo gospels**
- .9 **Other pseudepigrapha**
- 91 **Old Testament**
- 911 **Historical books**
- 912 **Poetic books**
- 913 **Profetic books Jewish apocalypses**
 Book of Enoch Assumpt on of Moses Epistle of Baruch Apocalypse of
 Baruch Ascension or vision of Isaiah 4th book of Esdras Book of Eldad
 and Modad Apocalypse of Elias Apocalypse of Zephannah Apocalypse
 of Daniel
- 914 **Testaments**
 Testament of the 12 patriarchs Testament of Abraham Testament of Job
- 915 **Other books by or about the profets**
 Books of Elias Jasher Jeraiah Zorah
- 92 **Pseudepigrapha of the Acts of the apostles**
- 93 **Pseudepigrapha of the epistles**
- 94 **Pseudepigrapha of New Testament apocalypses**
- 95 **Other recently discovered pseudepigrapha**
- 951 **Sayings of Jesus**

230 **Doctrinal Dogmatics Theology**

General doctrinal works may be subdivided by churches like 230-289 See also 252.3

ment 232.3

231 **God Unity Trinity**

- .1 **God the Father, Creator**
- .2 **God the Son, Redeemer**
 Second person of the Trinity irrespective of his appearance on earth as the
 historic Christ
- .3 **God the Holy Ghost, Giver of Life, Sanctifier**
- .4 **Divine attributes omniscience, omnipresence, omnipo-
 tence**
- .5 **Divine providence See also Natural theology 214**
- .6 **Divine love and wisdom**

- 231.7 Divine law Government of God
 .73 Miracles
 Supernatural events Wonders Thaumaturgy. The miracle as an argument of faith, belief in miracles Bible miracles and post Bible miracles
 Miraculous places Miraculous objects relics statues, images Miraculous cures Stigmata
 .74 Revelation, vision and appearing of God
 .8 Theodicy
 Vindication of God's justice in permitting evil See also Natural theo. 287, 214
 .9
 232 Christology
 .1 Incarnation Messiah
 .11 Messiah according to the Bible
 .12 Messianic professions
 .121 Protevangelium Promise to Adam of a redeemer
 .122 Promises to the patriarchs
 .123 Profesy of Jacob
 .124 Promises to David
 .125 Profesies in Psalms
 .126 Profesy of Isaiah
 .127 " " Daniel
 .128 Other professions Zechariah, Jeremiah etc.
 .129 Apocryfal professions
 .13 Waiting for Messiah
 .2 Logos, the Word of God
 .3 Atonement
 .4 Sacrifice
 .5 Resurrection
 .6 Second coming See also 286 7 Second adventists
 .7 Judgment
 .8 Divine humanity
 Divinity of the man Jesus, pro and con
 .9 Lives of Christ
 General biographies of Christ His person teaching, works, influence
 91 Annunciation
 92 Infancy
 .921 Nativity
 .922 Adoration of the shepherds
 923 The 3 wise men Epiphany
 .924 Circumcision
 .925 Massacre of innocents
 .926 Flight into Egypt
 .927 Retired life in Nazareth
 .928 Presentation in temple
 .929 Jesus among the doctors
 .93 Holy family
 931 Mary
 932 Joseph
 933 Parents of Mary: Joachim, Anne
 .94 John the Baptist, forerunner of Christ

- 232 95 Public life of Christ
 951 Baptism
 952 Temptation
 953 Calling apostles
 956 Transfiguration
 957 Lord's supper
 958 Last words
 96 Passion of Christ
 961 Betrayal by Judas
 962 Trial Condemnation
 963 Crucifixion Deth
 964 Burial Laying in grave
 966 Relics of passion
 967 Descent into hell
 97 Resurrection and ascension
 971 Appearances of Christ
 972 Ascension
 98 Agrapha
 Christ's words not contained in Gospels
 99 Legendary, apocryphal and imaginative accounts of Christ
 991 Poetry 992 Drama 993 Fiction
- 233 Man
- .1 Origin Fall
 11 Creation of man Preadamites Coadamites
 12 Primitive state of innocence Elevation to supernatural
 order Theory of supernatural and of state of pure
 nature
 13 Earthly paradise Eden
 14 Fall Nature of original sin Its results Transmission
 See also 273 5 Pelagian heresy
- .2 Sin
 21 Mortal and venial sin
 22 Sins against the Holy Ghost
- .3 Moral and spiritual heredity
 See also Biology 375 1 Psychology 136 3 Metaphysics 129 2
- .4 Accountability
- .5 Natural and spiritual body
- .6 Personality See also Metaphysics 126
- .7 Freedom See also 234 9 1231 159

234 Salvation Soteriology

I Grace

See also 273 7 Jansenist heresy

11 Actual grace

111 Nature and form

112 Necessity

Doctrin of Pelagians Socinians Remonstrants and Rationalists of
Lutherans Calvinists, De Bay Jansen and Quercel

113 Free grace

114 Distribution of the graces

115 Relation between grace and free will Premotion Molinism

See also 234 9 Predestination

12 Sanctifying grace

123 Nature of sanctifying grace

13 Merit

14 Innate virtues

15 Gifts of the Holy Ghost

2 Faith

21 Nature

Natural elements and natural motives in exercise of faith Formal motive
authority of God

22 Necessity of grace for belief

23 Relation between faith and science revelation and reason

See also 215 Religion and science 239 7 Apology against rationalists

24 Rule of faith Test of truth in theology

See also 262 7 Tradition 262 8 Authority of the church

25 Revealed mysteries in general

26 Religious doubt

3 Redemption

4 Regeneration

5 Repentance

6 Obedience

7 Justification

8 Sanctification

9 Predestination and freewill See also 233 7 163 159

235 Angels Devils Satan

236 Eschatology Last things

1 Deth

2

3 Millennium

4 Intermediate state Sheol Hades

5 Purgatory

6 Paradise Limbus patrum

7 Limbo Limbus infantum

8 Resurrection

9 Judgment See also Christology 232 7

- 237 Future state See also Natural theology 218
- 1 Eternity
 - 2 Immortality
 - 3 Conditional immortality
 - 4 Heaven
 - 5 Hell Gehenna
 - 6 Retribution Future punishment
 - 7 Eternal punishment See also 289 1 Unive sallets
- 238 Creeds Confessions Covenants Catechisms
 Divided into e c l o e y f w h t like 280 239 e g 238 19 C e k chu ch
- 1 Apostles, Nicene, and Athanasian creeds
 - 2 Creed of Pius 4 (Trent) and later Roman
 - 3 Anglican 39 articles, A D 1551 See also 264 037 Liturgy
 - 4 Continental protestant Lutheran Calvinist Dort
 - 5 Westminster Saybrook Congl Cambridge Savoy
 - 6-9 Of other sects D v d d like 285-289
- 239 Polemic theology Apologetics Evidences of Christianity

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- 1 Apostolic age
- 2 Against the Jews
- 3 Against the heathen
- 4 Against the Neo Platonists See 273 1 Gno c heresy
- 5 Against the English and Scotch deists S e 2 1 De am
- 6 Against the French encyclopedists
- 7 Against the rationalists
 See 215 Na u al theology 2 3 8 Agnos c h resy 149 7 Agnos cism
- 8 Against the scientists Fo nonchris an view see 215
- 9 Other special denials

240 Devotional Practical

241 Didactic

Specifying the Christian's duty to do and to avoid For Catechisms see 238

242 Meditativ, contemplativ

Consolatory See also 248 Personal religion

.1 Thomas à Kempis

243 Hortatory, evangelistic

Urging sinners to Christian repentance

244 Miscellany religious novels, Sunday school books, allegories, satires, etc

But class Bunyan in 823.42 because of his literary prominence

245 Hymnology Religious poetry

Hymns without music For hymns with music see 783.9

Divided by languages like 400 and then after 0 by churches like 280 (denominational) as clearly marked

See also 223.5 Psalms

246 Ecclesiology Symbolism Religious art

246-7 cover religious bearings For art side see 704-948

.1 Byzantine and Gothic ecclesiology

See 723 Medieval architecture 726 Religious architecture

2 Primitiv church and heathen art

3 Images in churches Iconoclasts

4 Protestantism and religious art

5 Emblematic and cryptographic art catacomb symbols

6 Liturgic symbolism altar, colors, lights

See also 264 Public worship

7 Evangelistic use of music and art, pictorial and plastic Della Robbias

8 Eucharistic music Ambrose, Gregory the Great Later development

See also 783 Sacred music 264.2 Public worship

9

247 Sacred furniture Vestments Vessels Ornaments, etc

1 Font Baptistery Lectern Pulpit

2 Tabernacle Rood screen Reredos

3 Sculpture and mortuary design

See 8 M monuments 726.8 Mortuary buildings 730 Sculpture

4 Illumination Mosaics Enamels Stained glass

See also 745 Ornamental design 748 Stained glass

5 Fresco and religious painting See also 750 Painting

6 Pallium Miter Crozier Ring

.7 Vestments and altar cloths

8 Eucharistic vessels See also 265.3 Sacraments

.9 Ornaments, etc crucifix, banners, thurible, incense

- 248 Personal religion Asceticism
See also 273 2 Ascetic heresy
- 249 Family devotions See 264 Public worship
- 250 **Homiletic Pastoral Parochial**
- 251 Homiletics Preaching See 264 6 Public worship
Divided like 252 for matter about special kinds of sermons
- 252 Sermons
When too varied for any of the subheads 1-9 may be divided with 0 by churches and sects like 280 e.g. protestant episcopal sermons 252 03 but a collection of bishop's addresses 252 1 Sermons on specific topics are more useful like other pamphlets class with the topics e.g. a sermon on family devotions is 249 not 252 4 on strikes 331 892 Tho the 9 heads below are for collections and cross references they may be used for separate sermons if preferd
- .1 Episcopal charges Pastoral's
- .2 Controversial Polemic
- .3 Doctrinal Dogmatic See also 230 Dogmatics
- .4 Practical Devotional
- .5 Academic Educational See also 378 K Baccalaureates
- .6 Political Public occasions and duties
Thanksgiving and Fast day
- .7 Consecration Ordination Installation
See also 265 4 Ordination 265 9 Consecration 262 16 Orders
- .8 Expository
- 9 Memorial Obituary Biographic Historical
Memorial of a special church goes with that church in 280 See also 920 Biography
- 253 Pastoral life and duties Celibacy
- 254 Church finance Cleric support
- 255 Brotherhoods Sisterhoods
In the parish. For Monastic orders see 271
- 256 Societies for parish work: guilds, sodalities
Local societies Discuss on of desirability of such work For general societies see 266 and 267
- 257 Parish educational work
Schools libraries etc See also 377 5 Education 627 534 Parish libraries
- 258 Parish welfare work
Work for sick fallen afflicted etc See also 265 8 Ministry of sick 176 5 Social evils
- 259 Other ministrations and work

260 Christian church: institutions and work

261 The church

Its influence on morals civilization etc Relation to social questions laboring classes etc

.1

2

.3 Church vs barbarism

4 Church and morals

5 Church and intellectual development See also 377 & Education

6 Church and civilization

7 Church and civil government

See 172 3 State ethics 322 Church and state

Their relations religious liberty tolerance and intolerance state religion patronage of church by civil government suppression disestablishment union of church and state concordat etc

73 Power of church over temporal power of princes Theocracy

75 The church and modern freedom

Papal syllabus of Pius 10

8 National churches vs organic unity

9

262 Ecclesiastic polity

1 Ministry

11 Apostolic succession

12 Episcopate

13 Papacy Primacy Papal supremacy

131 Characteristics of the papacy

Primacy of see of St Peter and pontifical infallibility

132 Temporal power of pope Pontifical states

135 Conclave Election of pope

136 Organization of the pontifical curia

14 Priest Presbyter Minister Lay ministry

15 Deacon Deaconess Evangelist

16 Orders Ordination See 265 4 Sacraments 253 7 Sermons

17 Episcopal

18 Presbyterian

19 Congregational

2 Parish Congregation See 250 4 or Parochial work

3 See Diocese Cathedral system

.4 Council Synod Presbytery Congregation Convention

Polity only here Proceedings go with churches 281-9

41 National

5 General or ecumenic council See also 270 2

6 Canons Decrees

.7 Traditions

.8 Authority Church and ministerial Private judgment

.9 Discipline Courts Trials For Church law see 348

- 263 Sabbath Lord's day Sunday
- .1 Hebraic sabbath
 - 2 Modern sabbath Seventh day
 - 3 Lord's day Christian Sunday
 - 4 Sunday observance
 - 5 Work
 - 6 Amusement
 - 7 Opening libraries and museums See also 024.4 Library rules
 - 8 Sunday laws
 - 9
- 264 Public worship Divine service Ritual
Liturgy
- Prayer books See also 246 Ecclesiology 247 Sacred furniture General works
arranged with other churches like 280 e.g. Roman catholic prayer book
264.02 Under various churches the services may be further divided as e.g.
- 03 Anglican and American P.E. ritual
 - 031 Calendar Festivals and fasts See also 529.44 Chronology
 - 032 Lectionary and rubrics
 - 033 Morning prayer Litany
 - 034 Evening prayer Vespers Compline
 - 035 Sacraments ordinances and services See also 265 Sacraments
 - 036 Collects epistles and gospels
 - 037 Ordinal Articles Creeds See also 238.3 Creeds doctrine
 - 038 Psalter and other See 223.5 Psalms 245 Hymnology
 - 039 History of successive prayerbooks
 - .1 Prayer Extempore Liturgic
See also 246 249 Private and family prayer
 - .2 Music Singing Instrumental Praise meeting
See also 783 Sacred music 246.7 246.8 Ecclesiology
 - 3 Scripture readings
 - .4 Antiphonal or responsive readings
 - 5 Confessions of faith Creeds See also 238 Creeds
 - 6 Sermons Exhortations Instructions
See also 251 and 252 Preaching and sermons
 - 7 Prayer and conference meetings
 - 8 Class and covenant meetings Love feasts
 - 9 Sacramentals See also 265 Sacraments
- 265 Sacraments Ordinances
- 1 Baptism
 - 2 Confirmation Church fellowship
 - 3 Eucharist Holy communion Sacrifice
 - 4 Holy orders Ordination See also 262.16 Ministry 252.7 Sermons
 - 5 Marriage See also 173 Ethics of the family
 - 6 Penance Confession Absolution
 - 61 Contrition See also 234.5 Repentance
 - 62 Confession

- 265 63 Satisfaction
- .64 Absolution
- 65 Censures excommunication, suspension, interdiction
- 66 Indulgences
- 67 Ancient public penance
- 68 Reconciliation of heretics
- 69 Ministration of the sacrament
- .7 Extreme unction Viaticum
- .8 Ministry of sick and dead: faith cure, healing, burial
- .9 Consecration Dedication See 262 16 Ordination 252 7 Sermons
- 266 Missions: home and foren
 - Subdivided by churches like 280 See also 269 Parish missions 377 6 Missionary schools
 - Missions in special countries or places covering the work of several sects go under the geographically divided Religious history 274-279 The mission of a single sect in a special country or place may according to preference be classed with Missions in 266 subdivided by sect or with Religious history 274-279
- 267 Associations
 - General societies demanding of members active personal work For local societies, see 256 For Bible tract, and similar general societies see 206
 - .1 Religious societies of both men and women
 - .11 U. S. Christian commission
 - .15 Salvation army
 - 18 Denominational
 - Divided like 280 e. g. 267 186 Baptist adult union
 - .2 Religious societies of men
 - For Y. M. C. A. see 267 3 missionary societies 266 immaterial education societies 207 Bible societies 206
 - 21 17th century or earlier } May be divided by countries like 940-999
 - 22 18th century }
 - 23 19th century or later, inter- and undenominational
 - 231 In educational institutions
 - Divided like 940-999 If preferred cancel 231 and put all together in 234-9
 - For work of Y. M. C. A. see 267 361
 - 232 Nasruth societies
 - 233 Young men's Christian unions i. e. not "evangelic," etc
 - .234-239 Others Divided like 940-999
 - 24 19th century or later, denominational
 - 241 In educational institutions
 - Divided like 282-289 If preferred cancel 241 and put all together in 242-9 For work of Y. M. C. A. see 267 361
 - .242-249 Others Divided like 282-289
 - .3 Young Men's Christian associations
 - Following subdivisions may also be applied to 267 432 Women's and 267 5 Young women's Christian associations
 - 31 General questions
 - Objects field, extension Relation to church Methods of local state, national, international work For history, reports, etc see 267 39
 - .32 Buildings
 - Location plans provision for special rooms, lighting, heating, ventilation furniture and fixtures See also 726 973 Architecture

- 267 33 Organization
Incorporation branches and suborganizations, managers, trustees, standing committees, membership, etc
- 34 Salaried officers: Duties, qualifications, training
- 341 General secretary and assistants
Including international and state secretaries
- 342 Librarian and assistants
For library administration see 025 Library economy, 267 353
Library in Education dept
- 343 Physical director and assistants
See also 267 355 Physical dept, 613 7 Recreational hygiene and gymnastics
- 344 Other salaried officers
- 345 Training Need, methods, demand, supply
- 346 Training schools
- 347 Apprenticeship training
- 348 Institutes 349 Conferences
Methods only; for reports see 267 39
- 35 Departments
Organization, committees, work, methods, etc For similar aspects of work with boys see 267 357 Boys dept
- 351 Business dept 352 Religious dept
- 353 Education dept. Including library, for librarian see 267 342
- 354 Social dept
- 355 Physical dept
For physical director see 267 343, see also 613 7 Recreational hygiene and gymnastics
- 356 Dept of information, relief, etc
Boarding house, employment savings, etc bureos, visitation of sick, aid to destitute, etc
- 357 Boys dept
2-6 may be used like 267 352-356 for such work in Boys dept, e.g. 267 3575 Physical work of Boys dept
- 359 Janitor's dept Including safety and police measures
- 36 Work among special classes
Limited to Y M C A, for other religious societies of men see 267 2
- 361 College and school
- 362 Railroad employes
- 363 Commercial travelers
- 364 Foreign-speaking
May be divided like 400, e.g. 267 3643 German
- 365 Negroes 367 Soldiers
- 366 Indians 368 Sailors
- 369 Other police, firemen, fishermen, etc
- 39 History, reports, periodicals, etc
General and international For methods see 267 31
- 394-399 Special countries divided like 940-999
- 4 Religious societies of women
- 43 19th century or later, inter- and undenominational
- 432 Women's Christian associations
Divided like 267 3 To shorten the number, W may be used for 267 432
throughout e.g. W 1 would mean 'Objects field and extension'
- 433 King's daughters
- 44 19th century or later, denominational Divided like 282-289
- 5 Young Women's Christian associations
Active membership confined to members of 'evangelic' churches
Divided like 267 3-399
To shorten the number Y may be used for 267 5 e.g. Y 3 Organization listed of 267 53

- 267 6 Religious societies of young people For Sunday schools see 268
- 61 Interdenominational and undenominational
- 613 Young people's society of Christian endeavor
- 1 Reports etc
- 2 Periodicals
- 62 Denominational Divided like 282 289
- 7 Religious societies of boys Not Y M C A Divided like 267 6
- 8 Religious societies of girls Not Y W C A Divided like 67 6
- 268 Sunday schools Religious education
- 1 Establishment Administration
- 12 Constitution Bylaws
- 14 Business department
- 143 Finances
- 2 Budget
- 3 Regular subscriptions Systematic giving Duplex envelop
system
- 4 Soliciting Collecting
- 6 Disbursements
- 144 Printing
- Programs announcements school paper school manual
- 145 Publicity
- Local pages concerts posters invitation cards go to Sunday school buttons
- 146 Bidding up attendance
- Entertainments concerts socials pageants Christmas tree
- 15 Branches Missions
- 2 Premises Equipment
- 21 Grounds
- Site provision for growth
- 22 Buildings
- See also 726 4 Architecture 697 Heating and ventilating 628 p Lighting
- 23 Plan and arrangement of rooms
- 231 Administrative rooms and offices
- 232 Study, lecture and assembly rooms
- 233 Library and museum
- 234 Manual work rooms
- 235 Social rooms
- Parlors kitchens pantries etc
- 236 Gymnasium
- 237 Sanitation Lavatories
- 239 Accessories
- Elevators lifts telephones etc
- 24 Furnishing Decorating
- 241 Furniture
- Blackboards desks chairs benches sand tables book cases stereopticons
maps globes
- 245 Decoration
- 3 Personnel
- 32 Trustees Directors
- Body responsible for policy funds appointments
- 33 Administration Supervision
- 332 Pastor Associate pastor

- 268 333 Superintendent Associate or assistant superintendents
- 2 Relation to pastor
- 3 " " church aims
- 4 " " congregation
- 5 " " school
- 52 Relation as chief executiv
- 53 " to teachers
- 54 " " pupils
- 55 " " Sunday school exercises
- 334 Secretarial force
- 2 Registrar
- 3 General secretary
- 4 Report secretary
- 5 Custodian of supplies
- 6 Superintendent of absentees
- 335 Treasurer
- 336 Librarian
- For library see 027 831
- 337 Chorister
- For music see 783 7
- 338 Director of hand work
- 339 Other
- 34 Committees
- Public ty, reception, welcome, evangelism, and 'home cooperation, social life and recreation, special days, music library
- 37 Teachers
- 371 Qualifications Personality
- 372 Need of training, kind, amount
- 373 Examination Certificates
- 374 Appointment Organization of teaching force
- 376 Promotion Salary Amount of service
- 4 School organization
- 42 Membership
- 422 Extension department
- District plan, permanent visitation, committee house to house visiting
- 423 Welcome committee at church services
- 424 Securing new scholars
- Members of school bring new scholars
- 43 Teaching departments
- 432 Children's division
- Cradle roll, birth, 3 yrs, beginners dept, 4-5 yrs, primary, 6-8 yrs, junior, 9-12 yrs
- 433 Young people's division
- Intermediate dept, 13-14 yrs, senior, 15-17 yrs, young people's, 18-24 yrs
- 434 Adult division
- Mens dept, womens dept, parents training class
- 435 Home departments
- Domestic, invalids, etc., i.e. those carrying on regular Sunday school course but prevented from attending
- 436 Correspondence courses
- 437 Special classes
- Army, navy, special types, races, etc.
- 44 Grading Graded school
- 45 Scholarship records Marking system
- 46 Examinations Promotions
- 47 Certificates Diplomas

- 268 48 Outside activities
For discussions of relation of Sunday school to church community weekday schools financial activities clubs etc
- 5 Disciplin Incentivs
- 51 Rules
- 52 Attendance Tardiness Absence
Help of home influence invitations and reports to parents. Follow up cards.
Attendance charts
- 53 Rewards Inducements
Prizes decorations Printed honor roll Cards to be redeemed with reward.
Special holiday or summer plans
- 54 Punishment Penalties
- 6 Systems Methods of instruction and study
- 61 Lesson systems
- 62 Textbook method Graded subject matter
- 63 Lecture method
- 635 Visual instruction
- 2 Stereopticon lantern and slides
- 3 Motion pictures travel missions
- 4 Pictures
- 5 Charts
- 6 Maps
- 7 Blackboard
- 64 Inductive method
- 65 Question and answer method Reviews
- 66 Heuristic or source method
Use of Bible catechism church doctrine
- 67 Dramatic interpretation of Biblical events
See also 244 Religious music 772 1 Passion plays 822 1 Early English drama
- 68 Manual work
- 682 Note book work
Copying or original titles or verses describing pictures written answers to questions historical outlines thesis work
- 683 Geography work
Maps line work, map marking modeling in clay and pup
- 684 Illustrative work
Picture books symbolic and descriptive drawings sand table picture work
constructing models of life and customs
- 69 Decorative work
Designing lettering illuminating
- 67 Museum work
Collecting and constructing illustrative material
- 69 Other
- 7 Services
- 72 Order of services
- 73 Music and worship
- 75 Rallies
Ray day children's day parents day
- 76 Anniversaries Special days and festivals
Christmas Lent Easter Thanksgiving
- 77 Vacations
- 78 Sunday schools of various denominations
Subdivided like 280
- 269 Revivals Retreats Parish missions

270 General history of Christian church

Ancient period to conversion of Germans

See 281 & 281.4 for collected works of early theologian writers etc 270.12 for religious history of these periods

For religious history of special countries either general or for special periods see country divisions 274.279 e.g. English reformation 274.2

- .1 **Apostolic** Nativity to Constantine
- 2 **Period of ecumenic councils** Centralization 325-787
The Greek church acknowledges these 7 councils as really Ecumenic Anglicans generally recognize only the first 6 See also 262.5 Polity
- 21 First of Nice A.D. 325
- 22 First of Constantinople 381
- 23 First of Ephesus 431
- 24 Chalcedon 451
- 25 Second of Constantinople 553
- 26 Third of Constantinople 680-81
- 27 Second of Nice 787

Medieval period Charlemagne to Luther

- 270.3 **Charlemagne** Papacy vs empire 787-1054
Church planted among the Germans Feudalism Great schism east vs west 1054
- .4 **Hildebrand** Roman supremacy 1054-1200
Temporal power Scholasticism First 3 crusades
- .5 **Later medieval** Renaissance 1200-1517
Innocent 3 Papal schism Avignon Nominalism vs realism Greek church under Moslems Education Arts Inventions Pre reformation

Modern period Reformation to present

- .6 **Reformation** Counter reformation 1517-1648
Council of Trent A.D. 1545-63 Diet of Augsburg Luther Melancthon Calvin Knox Religious wars Jesuit missions in east See also reformation in England etc 274.2
- .7 **Peace of Westphalia to French revolution** 1648-1789
Union of church and state Deism Materialism
- 8 **Modern** Rationalistic 1789-
Holy alliance Greek church in Russia Atheism Pantheism Protestant missions

271 Religious orders

Including monasteries monastic foundations monasteries

See also 235 Brotherhoods 726.7 Architecture of monasteries etc

- .1 **Benedictines** founded 529
- 12 Cistercians " 1098
- 125 Trappists " 1150
- 13 Olivetans
- .2 Dominicans " 1170
- 3 Franciscans " 1182
- 31 Original order not divided
- 32 Conventuals

- 271 33 Observantines
 34 Récollets
 35 Alcantarines
 36 Capuchins founded 1525
 4 Augustinians " 1256
 5 Jesuits " 1540
 6 Passionists, 1720 Redemptorists, 1732
 7 Lesser Roman orders
 71 Carthusians founded A D 1086
 73 Carmelites 12th century
 75 Sulpicians 1642
 76 Oblates
 77 Lazarists, 1624
 78 Christian Brothers 18th century De la Salle
 79 Other lesser Roman orders
 8 Nonroman brotherhoods
 Divide like 280 (except 282 which is supra left under 1)
 9 Sisterhoods
 91 Sisters of Charity Vincent de Paul founded A D 1619
 92 Sisters of Mercy Augustinian " " 1831
 93 Ladies of the Sacred Heart Jesuit " " 1800
 94 Sœurs de bon Secours Nurses
 95 Little Sisters of the Poor
 96 Contemplative Cloistered nuns
 97 Other Roman sisterhoods
 971 Carmelites
 972 Second of St Dominic
 973 Franciscans
 974 Ursulines A D 1537
 975 Of the Visitation " 1610
 976 Of St Joseph " 1650
 977 Of the Presentation " 1777
 98 Nonroman sisterhoods
 Divide like 280 (except 282 which is provided for under 271 95 97)
 99 Other protestant orders Deaconesses (Kaiserwerth)

272 Persecutions

See also special sects 280 and history of special countries 940-990

- 1 Apostolic church by imperial Rome 1st-4th century
 2 Heretics by Inquisition or Holy Office Since 1470
 3 Waldenses and Albigenses 11th-12th century
 By Roman church See also 284-4 Protestant sects
 4 Huguenots French protestants
 By Roman church St Bartholomew 1572 Edict of Nantes 1598 revocation 1685
 See also 284 5 Protestant sects
 5 Mohnists and Quietists
 By Roman Catholics. Close of 16th century to destruction of Port Royal A D 1709 See also 273 7 Heretics

- 272 6 Marian Anglican reformers by Mary A. D. 1553-58
 .7 Elizabethan Later 16th century
 Persecution of Roman church by Anglicans
 .8 Quakers Baptists Witches Later 17th century
 Persecutions by puritans See also 133 4 Witchcraft
 .9 Other persecutions

273 Heresies

For the history of special doctrines see 230 239 Doctrinal theology

- .1 Gnostic First 3 centuries
 Reaction of pantheism and heathen philosophy on Christianity See also 189 1
 Gnostic philosophy 186 4 Neo-Platonism 239 4 Apologetics
 .2 Manichæism Parsee dualism 3d century
 Opposition of good and evil Mystic Ascetic See also 149 3 Mysticism
 248 Asceticism 289 8 Shakers Mystics
 .3 Sabellian
 That the Trinity is not of persons but of successively manifestations About 250
 A D
 .4 Arian Denying divinity of Christ 4th century
 .5 Pelagian 5th century
 Denying original sin and supernatural grace
 .6 Antinomian 16th century
 Denying force of law under Gospel dispensation
 .7 Molinist and Jansenist Pietists A D 1580-1700
 Port Royal Augustine's doctrine of grace vs the Roman doctrine of good works
 .8 Agnostic
 Denying possibility of revelation Holding that theology and the supernatural
 lie outside the domain of human knowledge See also 149 7 Philosophy 211
 Atheism 239 Apologetics
 .9 Minor heresies

274-279 General church history by countries

274 279 is divided geographically like 910-999

280 Christian churches and sects

281 289 8 may be subdivided where needed like 940 999

281 Primitiv and Oriental churches

See also 270 1 270 3 Early religious history

- .1 Apostolic church, to time of great schism, A D 1054
 Works of apostolic and Christian fathers here use 270 for religious history of
 these periods See also 229 9 Apocryphal books
 2 Primitiv apostolic to end of first century
 3 Ante Nicene, A D 100 325 See also 270 1
 4 Post Nicene A D 325-1054 See also 270 2-3
 5 Oriental churches
 6 Monophysite Eutychian
 62 Armenian
 63 Jacobite
 7 Coptic Abyssinian
 8 Nonmonophysite Nestorian
 9 Eastern or Greco-Russian or Holy orthodox church
 The great schism mutual excommunication A D 1054 separates the Catholic
 church into Eastern and Western churches which from this time have separate
 histories

- 282 Western or Roman catholic church
 D vided geographically like 940-999
- 283 Anglican and American P E church
 D vided geographically when needed like 940-999 e g the American church in Australia is 283 94 in Ind a 283 54
- 284 Continental protestant sects Protestantism
- 1 Lutheran
 - 2 Calvinist Zwinglian Reformd See also 285 and 286 1
 - 3 Hussites Anabaptists Leyden See 286 1
 - 4 Albigenes Waldenses Vaudois See 272 3
 - 5 Huguenots See 272 4
 - 6 Moravian
 - 7 Scandinavian Swedish
 - 8 Modern schisms in Catholic church
 - 81 Old catholic
 Here are classed those denying papal infallibility or for other cause cut off from Rome tho catholic in other respects
 - 82 Gallican schismatics Constitutional church
 - 83 Little church of France
 Those who do not recognize the concordat (Ant-concordata res)
 - 84 Jansenists
 See also 273 7 Jansenist heresy
 - 9 Other
- 285 Presbyterian Reformd Congregational
 Next 2 subdivisions are sectarian not geographic
- 1 Presbyterian church in America
 Subdivided geographically e g 285 173 Presbyterian church in United States
 285 175 Southern presbyterian church
 - 2 Presbyterian church in Great Britain
 - 3 Cumberland presbyterian
 - 4 United presbyterian
 - 5 Reformd presbyterian
 - 6 Minor presbyterian sects
 - 7 Reformd (Dutch) church in America e g 285 174 71 in N Y city
 - 8 Congregational
 - 9 Puritanism
- 286 Baptist Immersionist
- 1 Calvinistic or Regular
 Including Armaman or General baptists reunited with Calvinists e g 286 1
 - 2 Free wil
 - 3 Seventh day
 - 4 Old school (Primitive, Antimission or Hardshe)
 - 5 Other baptist sects
 May be classed if preferred with any of the larger sects which they most closely resemble or of which they are offshoots
 - 6 Disciples (Campbellite or Christian)
 - 7 Adventists
 - 9 Other immersionists

287 Methodist

- .1 Wesleyan methodist
- .2 Calvinistic methodist
- .3 Welsh Calvinistic methodist
- .4 Primitiv methodist
- .5 Primitiv Wesleyan
- .6 Methodist episcopal
- 7 Methodist protestant
- 8 African methodist
- 9 Minor methodist sects

288 Unitarian Socinian Antitrinitarian

See also 273.4

289 Other Christian sects

- .1 Universalist
- .2
- 3 Mormon
- 4 New church or Swedenborgian
- 5 Christian science
- 6 Quaker Friends Hicksites
- .7 Mennonite
- .8 Shaker Mystic For Mystic heresy see 273.2
- 9 Other Christian sects

290 Nonchristian religions

Including comparative religion and general histories of religion where an equal or minor place is given to Christianity

291 Religious topics of general nature Comparative mythology

Subdivisions given below are for general works on these topics Material relating to a special religion should generally be classed with that religion

- .1 General ideas
- 12 Religious emotions
 - Awe veneration submission confidence love etc See also 157
 - Emotions in psychology
- 13 Comparative mythology
 - The myths its constituent elements growth and changes in form
- 14 Classification of religions
 - Monotheistic polytheistic mystic revealed etc
- 15 Genealogic connection between religions
- 16 Attitude of religions to each other Tolerance
- 17 Relations between religion and science art and morals
- .2 Religious doctrines Dogmas Theology
- 21 Divinities
 - Object of religion Worship of various divinities Special myths
 - Functions of gods Worlds of gods and spirits
- .311 Animism, spiritism, fetishism, totemism, polydemonism

Naturism

Adoration of the forces of nature and personified objects and phenomena
Nature myth

- 1 Mountains and rocks (litholatry)
- 2 Water (hydrolatry)
- 3 Plants and trees (dendrolatry)
- 4 Animals dog crocodile, serpent, birds (zoolatry)
- 5 Atmospheric phenomena atmosphere rain clouds winds lightning, thunder etc (meteorolatry)
- 6 Fire (pyrolatry)
- 7 Celestial bodies sun moon stars etc (astrolatry)
- 8 Sky and earth (ouranolatry and chthonism)

.213 Worship of human beings (apotheosis)

Demi-gods heroes saints absolute monarchs

4 Worship of ancestors

Domestic worship manes lares penates

5 Worship of the dead (necrolatry)**.214 Gods**

Personified abstractions and divinities considered as pure spirit

215 Hierarchy of gods

Servants and messengers of divinity

.216 Demons and evil spirits**217 Strife among the gods and between gods and men****218 Images of divinity Idolatry****3 Forms of worship Religious practises**

Liturgy etc

35 Sacred places

Holy places altars temples pagodas woods and groves sacred grottoes and streams, hermitages and villages

See also 726 Religious architecture

37 Symbolism

General and nonchristian

.6 Religious organization Sacred persons Religious men**61 Representatives of divinity**

Incarnation priesthood priests Ministers of worship and other mediators.
Recruiting of the clergy Types of priests Theocracy hierarchy
Messiah

62 Men endowed with supernatural power

Thaumaturgists, sorcerers magicians exorcists charlatans. Relation
between priesthood and sorcery

63 Divinely inspired men Profets**64 Interpreters of divinity**

Revelation of truth and of divine will Sacred writers Religious law
givers founders of religions religious reformers and apostles

.7 Deeds inspired by religious motives

Religious wars warlike or peaceful propagandism (see also 172-4 Peace and war
in ethics) Home and foreign missions

.8 Sources of religion

Sacred books oral traditions ecclesiastic decisions

292 Greek and Roman religion and mythology**293 Teutonic and Northern religion and mythology**

- 294 **Brahmanism Buddhism**
 Also religions derived from them For other Ind c religions see 299 11 See also
 891 2 Sanskr t literature 177 5 Caste
- .1 **Vedic religion**
- .2 **Prebuddhic Brahmanism**
- 3 **Buddhism**
- 31 Buddhism of the south
- 32 Buddhism of the north Lamaism
- 4 **Jainism Sect of Jainas**
- 5 **Hinduism**
 Changes introduced into Brahmanism during and after struggle with Buddhism
- 55 **Various sects of Hinduism**
- 551 **Cakta sect Worship of the Caktis**
- 552 **Brahmo Somaj sect**
- 553 **Sikhism**
- 295 **Parseeism Zoroastrianism Mazdaism**
- Mithraism**
 For other Iranic religions see 299 15 See also 891 52 Zend literature
- 296 **Judaism** For other Sem c religions see 299 2
- 297 **Mohammedanism**
- 298
- 299 **Other nonchristian religions**
 Subdivided ethnically like 491 499 e g Egyptian religion 299 31 Afghani religion,
 299 158

Social Sciences

300 Social sciences Sociology in general

301-309 all have Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370 5 not 305 which is only for periodicals on Sociology in general. In Sociology most works in these forms are limited to one division,

301 Sociology: philosophy, theories

See also 901 Philosophy of history, 320 1 Theory of state

.1 General conception

Nature and character definition limits and extent

.15 Social psychology

Individual and group interstimulation institutions as cultural stimuli social forces and responses collectivist mentality complex behavior See also 136 27 Social influences on mental characteristics 390 Custom fashion conventionality

151 Psychologic background

Consider with relation to social science Instincts emotions intelligence imitation suggestion etc Divided like 150 e.g. 301 1517 Emotions

152 Group unity and continuity

2 Group morale

Coordination group loyalties etc. See also 320 158 Political loyalty, patriotism

3 Group or social control

Social pressure control exerted by groups propaganda for police control of groups see 351 752 See also 323 4 Individual rights

153 Group activities and changes

2 Conflict

Interference opposition discuss on See also 323 2 Revolutions riots etc

3 Compromise

Modification accommodation

4 Assimilation

5 Social or institutional progress

Socialization culturalization culture reform social ideals

6 Disintegration

Maladjustment reversion decadence

154 Public or group opinion

155 Leadership and prestige

158 Special groups

2 Crowds Mobs

See also 323 2 Revolutions riots etc

3 Assemblies

Meetings committees audiences etc

4 Youth

See also 360 4 General young people's societies

- 302 Compends, outlines
- 303 Dictionaries, cyclopedias, etc.
- 304 Essays, lectures, addresses
- 305 Periodicals, magazines, reviews
- 306 Societies: transactions, reports
- 307 Study and teaching See also 370 Education
- 308 Polygraphy: collected works, extracts, etc.
Put here collected works of statesmen e. g. works of Adams, Jefferson, etc.
- 309 History of social science
 - .1 Social surveys
Divided like 930-999 and including general works on social conditions in specific countries. May, if preferred, be classed in 913-919 or, if strongly historical, in 930-999. For general histories of civilization see 901.
- 310 Statistics
 - 311 Theory, methods Science of statistics
 - .2 Methods, procedure, technic Preparation of statistics
 - 21 General questions
 - 22 Collecting
 - 23 Analysis Testing Verifying
 - 24 Arrangement Classification Tabulation
 - 25 Correlation
 - 26 Forms of presentation
Diagrams and cartograms graphs frequency tables index numbers
 - .3 Organization and direction of official statistics
 - 39 By country
Subdivided like 930-999
 - .4 Organization and direction of unofficial statistics

312 **Demography Population**

Distribution and progress of population General enumeration and census Vital statistics (may be classed here or under 614.1 Public health, as preferred) See also 323.3 Social classes, 325 Migration, colonization, 364.42 Crime prevention by control of population

.1 Births and birth rates Natality

Fecundity and sterility (see also 612.663 Physiology of fecundity, 616.69 Functional diseases of male generative organs, 618.17 Gynecology) Limitation of birth rate, Malthusianism etc (For birth control see also 173.3 Ethics 612.63 Physiology, 613.94 Eugenics) Illegitimacy (see also 347.6 Family law, 362.72 Child care)

.2 Deaths and death rates Mortality

Stillbirths (see also 618.39 Pregnancy) infant mortality, longevity (see also 612.68 Physiology of longevity) Mortality from special causes disease, accidents, murder, suicide, etc Mortality and survival tables determination of mortality rates (see also 368.31 Life insurance, 519.5 Life contingencies)

.3 Sickness and sick rates Morbidity

Incidence of disease See also 616-618 Pathology

.5 Marriages and marriage rates

Celibacy, proportion of unmarried persons Separation divorce (see also 173.1 Family ethics) See also 397.5 Marriage customs

.6 Physical condition of population

Somatologic statistics stature health physical infirmities etc See also 572 Ethnology, 573 Somatology

.7 Moral condition of population

See also 170 Ethics, 364 Criminology

.8 Progress of population

Population changes increase overpopulation decrease, depopulation

.9 Distribution and composition of population

According to origin or nationality, sex residence language or race, age, occupation social status education, religion, etc

313 Special topics

May be divided like the whole classification But see note under 314-319 below

314-319 General statistics Divided geographically like 940-999

The statistics of any special matter are put with the subject e. g. of Domestic animals in 636 of Shorthand in 653 of French novels in 843 of Theaters in 792 etc Statistics too general to be included in any topic are divided by countries Statistics of New York would be put

320 Political science

- .1 Theory
 - 11 Origin of the state
 - 12 Nation and territory
 - 121 Ethnographic
 - People of same race comprise the nation
 - 124 Geographic
 - Unity of territory
 - 126 Expansion Acquisition of territory
 - 1 By discovery
 - 3 occupation and possession
 - 5 cession Annexation
 - 7 purchase or exchange
 - 9 conquest or revolution
 - 127 Alienation of territory
 - 128 Frontiers Boundaries
 - 1 Natural boundaries
 - 2 Mountains
 - 4 Rivers
 - 6 Lakes
 - 8 Coast
 - 9 Artificial boundaries
 - 15 Nature entity, concept of the state
 - .151 Juridic theory
 - 152 Political theory
 - 153 Social and evolutionary theories
 - 154 The state as a moral organism
 - 157 Sovereignty
 - See also 341 International law
 - 158 Allegiance Loyalty etc Patriotism
 - See also state ethics 172 1 Duties of citizens
 - 159 National growth and decay
 - 18 Symbolism emblems arms, flag seal, etc
 - Better class in 929 8 and 929 9 Heraldry
 - .2 Compendia, statecraft
 - .3 Dictionaries
 - 4 Essays
 - 5 Periodicals
 - 6 Societies
 - 7 Education
 - 8 Polygraphy
 - 9 History of political science, divided like 930-999

321 Form of state

- .01 Simple state Sovereign state
- .02 Mixed state
 - .021 Federal state Bundestaat Federation
 - .022 Confederation of states Staatenbund
 - Union of sovereign states Alliance

DECIMAL CLASSIFICATION

- 323 442 Freedom of conscience
- 443 " " speech
- 444 Academic freedom See 378 221 Freedom of teaching
- 445 Freedom of the press
See also Journalism 070 13 Administration 357 757
- 446 Freedom of drama
- 447 " " art
- 45 Family
- 46 Property
- 47 Right of assembly association
- 48 Right of petition
- 49 Limitation and suspension of individual rights and guaranties
- 491 Martial law
- 492 State of siege
- 6 Citizenship
- 61 Laws Divided by country like 930-999
- 62 Naturalization
- 63 Alien races and citizenship
- 64 Loss and restoration of citizenship
- 65 Duties and obligations of citizens
Solar as citizen
- 67 Rights of aliens
- 68 Eligibility to office
- 324 Suffrage Elections
- 1 Qualifications, conditions and bases
For act see 324 3 Woman suff age
- 11 Age
- 13 Property
Household suff age
- 14 Education Competency Capacity
- 15 Nationality Race Religion
- 16 Residence domicil
Length of residence
- 162 Voting by soldiers
- 164 " " students
- 17 Exclusion from and suspension of suffrage
- 171 Incompetency incapacity
Insane idiots See also 324 11
- 172 Bankruptcy
- 173 Pauperism
- 174 Conviction of crime bribery selling vote
- 177 Government service
Military service soldiers and sailors
Civil service police officers
- 178 Other special classes
Students domestic servants etc
- 2 Forms of suffrage Systems Voting, etc
- 21 Electoral systems
- 211 Universal suffrage
- 212 Partial suffrage limited
- 213 Plural vote

- 324 214 Clas vote, clas system
 215 Compulsory voting
 216 Short ballot
 Aim ng to reduce number of electiv offices
 22 Constituencies and representation of interests
 221 Single member constituency
 Scrutin d arrondissement
 222 Multimember constituency
 Scrutin de liste block vote general ticket
 223 Minority representation
 Single vote limited vote cumulativ vote proxy system
 224 Proportional representation
 Preferential alternativ contingent transferable vote Quota sample
 Droop d'Hondt substitute or Gove method Graduated system List
 system. For second ballot see 324 248
 227 Economic and social groups
 23 Selection of candidates
 Declaration and presentation of candidacy
 231 Nomination of candidate
 233 Party organization Conferences
 235 Caucus primary
 237 Direct "
 239 Platform
 24 Voting procedure
 241 Electoral lists formation revision
 242 Registration system
 Poll lists and tally sheets
 243 Jurisdiction Examination of credentials
 Appeal petition
 244 Open voting
 245 Secret ballot
 246 Voting place
 247 Absent voting Voting by mail
 Traveling salesmen railway employees mail clerks etc
 248 Second ballot
 249 Indirect voting Electoral college
 25 Ballot
 251 Unofficial
 252 Official
 253 Party ballots
 254 Blanket ballots
 255 Party columns
 256 Office groups Australian ballot
 257
 258 Voting machines
 26 Results and announcements
 Inspectors of election meeting etc
 261 Count of ballot
 262 Majority elects Absolute majority
 263 Plurality " Relative majority
 268 Announcement of vote

- 324 27 Corruption Electoral fraud
 271 Bribery and undue influence intimidation selling votes
 272 Fraud in voting personation repeating illegal voting
 colonizing
 273 Election contributions and expenditures
 Limitations on expenditures publicity Restriction on contributions
 political assessments
 274
 275 Fraud in counting
 Miscount of ballots certification of false returns
 276
 277 Election contests
 28 Suffrage reform
 3 Woman suffrage
 4-9 Suffrage by country
 Divided like 940-900
- 325 Migration Colonization
 See also 312 Demography, 364-42 Crime prevention by control of
 immigration and emigration 572 3 Migration in Ethnology For
 complete list of form divisions see Table 2 following Relative index
- .1 Immigration Immigrants
 Under following subdivisions material dealing with special
 features of human migration in general as well as with immigra-
 tion For immigration to a special country see 325 4 9 See
 also 373 6 Citizenship p 364 256 Immigration and crime
- 11 General questions
 12 Types of migration
 Intercontinental interracial international internal from
 country to city rural depopulation from city to country
 rural rehabilitation Permanent temporary seasonal Indi-
 vidual or family collective transfer of populations group
 migration Voluntary involuntary exiles refugees deported
 prisoners of war, deported criminals etc
- 13 Causes Purpose
 Physiographic climatic economic food supplies commercial
 relations overpopulation political religious social hostile
 invasions conquests disasters fires epidemics floods etc
- 14 Effects of immigration
 On immigrant on country of settlement See also 325 314
 Effect of colonization on country colonized
- 15 Regulation Control
 For general discussions of immigration and the state official
 organization of immigrant service and official treatment of
 immigrants For official immigration bureaus and departments
 see 325 1061
- 152 Inspection Registration
 153 Fees capitation, head tax, etc

- 325.154 **Restriction Exclusion Selection**
 Quota system, etc Tests and bases of exclusion or selection, deportation
- .16 **Promotion and assistance Protection**
 Abuses
 Information, sanitary and medical services, exploitation
 For manuals of general information needed by immigrants use 325 102, for commercial immigration agencies use 325 1065
 See also 360 Welfare associations, 614 86 Protection of travelers
- .17 **Distribution Transportation**
 Migration routes, natural aids and barriers to migratory movements Control of distribution, official or unofficial
 Means of distribution
- .18 **Assimilation of immigrants Amalgamation**
 For assimilation in special countries see 325 4-9, e.g. 325 73
 Americanization See also 323 62 Naturalization
- .19 **Other topics**
- .2 **Emigration Emigrants**
 Divided only geographically by country of origin like 930-999, thus bringing together material on emigrants of a special country or race, e.g. Chinese emigrants 325 251. May be further subdivided after 09 by country of settlement, e.g. Chinese emigrants in Mexico 325 2510972. Material on emigrants is usually most important in respect to country of origin, so is best classed in 325 2. Most libraries will have little except on immigrants to their own country, hence in United States 325 2 will relate almost wholly to specific nationalities in United States, e.g. 325 26 Negro question. For immigrants in a special country irrespective of origin see 325 4-9
- .21 **General questions**
 May be divided like 325 1 (see examples below) For types of migration see 325 12, for causes see 325 13
- .214 **Effects of emigration**
 On country of origin, for effects on emigrant and on country of settlement see 325 14
- .215 **Regulation Control Restriction**
 Emigration and the state For official emigration bureaus and departments use 325 2061
- .216 **Promotion and assistance Protection**
 Abuses
 For commercial emigration agencies use 325 2065, manuals of general information needed by emigrants 325 202. See also 325 102 for manuals for immigrants
- .3 **Colonization Colonies**
 Active promotion and establishment of colonies or settlement of foreign possessions, also discussions of special aspects of groups of colonies. Divided only geographically by mother country like 930-999, e.g. 325 342 British colonies. This brings together colonies planted by a special country. May be further subdivided after 09 by country of settlement, e.g. 325 342096 British colonies in Africa. For colonies in a special country irrespective of origin see 325 4-9

- 325.31 General questions
 For types of migration see 325 12; for causes see 325 13
- .312 Types of colonies
 Colonies of migration, 'swarm colonies'; colonies of expansion, economic colonies, commercial settlements, concessions, established by government or by private enterprise, proprietary colonies; colonies of exploitation, governmental or private; military colonies, strategic posts, protectorates, dependencies, mandates, spheres of influence (see also 321 027 Form of state), penal colonies, etc.
- .314 Effects of colonization
 On mother country, on country colonized For effects on colonist see 325 14
- .315 Organization Administration
 Acquisition and settlement (see also 320 126 National expansion) Relations with native races native autonomy chieftainships, native councils Public domain, administration of vacant lands Types of colonial government
- 316 Promotion and assistance Abuses
 For official colonization bureaus and departments use 325 3061, for commercial colonization agencies use 325 3065
- .317 Colonial empire Colonial federation
 Imperialism, see also 321 03 Form of state
- 4-9 in special countries
 Both immigration and colonization divided like 940-999 by country of settlement e.g. 325 73 Foreign population of United States; Americanization (see also 331 86 Industrial nationalization) For ancient countries 325 093 may be used, e.g. 325 0938 Immigration and colonization in ancient Greece For source of immigration see 325 2, of colonization 325 3
- 326 Slavery Serfdom Emancipation
 See also 973 7 Civil war 371 974 Education of freedmen
- .1 Slave trade
- .2 Coolies and contract slaves
- .3 Serfs and serfdom
- .4 Antislavery documents
- .5 " periodicals
- .6 " societies
- .7 Proslavery
- .8 Emancipation and freedom
- .9 History of slavery Divided geographically like 930-999
- 92 Biography of slaves
- 327 Foreign relations
 Divided like 930-999 May be further subdivided after 09 (for Ireland and U.S.) or 009 (for all other countries) by a second country, e.g. 327 730944 Foreign relations of U.S. with France 327 4200944 Foreign relations of England with France
- 328 Legislation Lawmaking Legislative bodies
 Legislative annals
- .1 Parliamentary law

- 328 2 **Legislation**
- 21 Interpretation of law
- 22 Uniform laws
Uniformity of law on same subject in different states or countries
- 23 Codification
- 24 Policy Tendencies
- 241 Overlegislation
- 243 Special legislation For private and local bills see 328 378
- 25 Legislative powers
- 251 Juridic "
- 252 Executiv "
- 253 Implied "
- 256 Restrictions and checks on legislation See also 328 345
- 26 Direct legislation
- 261 Initiativ
Voters by petition or initiate legislation
- 264 Referendum
- 27-29 Subjects of legislative action Divided like 351 7 351 9
- 3 **Legislatures**

Summary

328 3 Legislatures

- 31 Upper house
- 32 Lower "
- 33 Membership Election
- 34 Prerogatives and powers
- 35 Sessions
- 36 Internal organization and discipline
- 37 Legislative procedure
- 39 Form of legislature
- 31 Upper house
- 32 Lower "
- 33 Membership Election
- 331 Conditions of membership eligibility
Age residence property Membership without voting power
- 332 Exofficio members
- 1 Cabinet and government officers
- 2 Expresidents
- 3 Other exofficers
- 4 Clergy bishops
- 333 Compensation
Annual salaries per diem payment Mileage traveling expenses Special sessions See also 328 347 Privileges
- 334 Representation
- 1 of states
- 2 territories
- 3 colonies and dependencies
- 4 classes
Universities landowning Irish and Scotch peers
- 5 election districts Apportionment
Equalization of representation ultrafar apportionment rotten borough reapportionment
- 6 Gerrymandering
- 9 Number of members

- 328 335 • Methods of appointment Election
- 1 Appointment by government or crown
 For life or for a term
- 2 Hereditary right
- 3
- 4
- 5 Election by direct vote plurality or majority
- 6 Length of term
 Entire or partial renewal of membership holdover member
- 7 Vacancies, resignations
 Method of filling vacancies special elections
- 8 Contested elections
- 338 Official membership lists directories
- 339 Unofficial lists or directories
- 34 Prerogatives and powers Restrictions
- 341 Power over revenue and appropriation
- 342 " to judge of elections
- 343 " over members
 Power to investigate or punish members
- 344 Power of expulsion
- 345 " over nonmembers
 Power of investigation for impeachment see 351 96-99
 " to imprison citizens
- 346 Treaty-making power
- 347 Privileges
 Franking privilege postage and stationery railroad passes free distribution of books
- 348 Immunities
 From arrest
- 349 Restriction
 Offsholding Instructions by electors
 Direct mandate See also 328 26 Direct legislation
- 35 Sessions
- 351 Method of summoning
 Parliamentary writ
- 352 Date of session
 Fixed or movable
- 353 Frequency of sessions
 Annual biennial quadrennial
- 354 Length of session Life of legislature
- 355 Recess
- 356 Adjournment Prorogation Dissolution
- 357 Executive session procedure
- 358 Special session Extra session

- 328 36 Internal organization and discipline
 Verification of powers credentials
- 361 Oath of office
- 362 Officers appointment election
- 1 Presiding officer, speaker
- 2 President pro tem
- 3 Secretaries, clerks
 Bill clerk Enrolling engrossing clerks
- 4 Sergeant at arms
- 5 Pages, messengers door keepers
- 6 Payment of employees gratuities, fees, extra pay
 Unnecessary attendants
- 7 Committees
 Standing special joint
- 8 Special commissions
 For investigation not administrative commissions
- 363 Records
- 364 Supplies daily papers postage stamps
 Telegraph and telephone bills
- 365
- 366 Discipline suspension investigation
- 367 Bribery Illegal practices
 Graft bills blackmail
- 368 Lobbying
 Including that by heads of departments and institutions
- 37 Legislative procedure
- 371 Rules manuals
 See 38 under 328 4 9 divided by country
- 372 Petition addresses
 Parliamentary inquiries commissions
 Recommendations from executive
- 373 Bills
 Technical bill drafting introduction
 Printing enrolling engrossing
- 374 Action by legislature before passage
- 1 Readings first second
- 2 Reference to committees
 Committee work or procedure investigation hearings conferences
- 3 3d reading
- 4 Contest over passage
- 5 Party caucuses logrolling
- 375 Final passage
 Rules committee lifting committee steering committee
 Vote viva voce by roll call by ballot obligation of voting in person
 pairing
 Required majority Veto see 353 93
 Passing over veto Bills left in hands of executive 30 day bills pocket veto
 Bills which become law without executive action
- 376 Special bills
 Financial omnibus riders
- 377 Joint resolutions
- 378 Local and private legislation
- 379 Procedure in special cases
- 1 Impeachment

- 328 39 Form of legislature
 - .391 One chamber
 - .392 Two chambers
 - See also 328 31 Upper chamber, 328 32 Lower chamber
 - .393 Other forms
 - .394 Reform
 - .395 Abolition
- 4-9 Of special countries

Divided by countries like 940-999, and under each, works may be divided
 01 Journals, 02 Debates 03 Abstracts, 04 Documents, 05 Rules, 06 Legis-
 lative manuals, 09 History of bodies, but it is recommended that American
 libraries make an exception for U S and states of U S by omitting 0
 and using for example 328 739 History of U S congress 328 7478 N Y
 State legislative manual For foreign countries the 0 is in some cases needed
 (and it is therefore recommended for uniform use and to prevent possible
 future if not present conflict) because of otherwise conflicting numbers
 e g unless 0 is used 328 469 might mean either a general work on law-
 making body of Portugal or a history of the lawmaking body of Spain

329 Political parties Party conventions

329 01 U S presidential campaign documents of all parties, arranged by campaign

- .1 Federal
- .2 Anti-Federal
- .3 Democratic
- .4 Whig
- .5 American Knownothing
- .6 Republican

- .7
- .8 Minor parties

81 Prohibition see also 178 5 Ethics, 82 Greenback see also 332 52 Paper money;
 83 Woman suffrage see also 324 3 Woman suffrage 84 People's, 85 Labor
 see also 331 8 Laboring classes

- .9 Parties in other countries Divided geographically like 940-999

330 Economics Political economy

Science of welth. For ful list of form divisions see Table 2 after
Relativ index

SUMMARY

- 331 Labor and laborers
- 332 Financial economics
- 333 Land Natural resources
- 334 Cooperation
- 335 Socialism Collectivism
- 336 Public finance
- 337 Tarif policy Protection and free trade
- 338 Production Economic organization
- 339 Capital Distribution and consumption of
welth
- I Theory
- II General conception
 - Economic psicology needs personal interest
- 13 Economic systems Capitalism
 - For socialism see 335
- 151 Mercantilism
 - Balance of barga n balance of trade theories bullionism
cameralism
- 152 Physiocracy
 - Rule of nature agricultural system
- 153 Classicism Individualism
 - Laissez faire Manchester school neoclassicism Cam
bridge or Marshall an economics
- 154 Historical school
 - German revolt against classicism
- 155 Universalism Neoliberalism
 - Romantic and institutional schools
- 16 Miscellaneous theories
- 161 Theories of welth
 - Economic goods services
- 162 Theories of value and utility
 - Labor-cost theory marginal utility theory, Austrian or
psicologic school service theory See also 338 5 Prices
- 18 Economic methods
- 182 Mathematical methods
 - Mathematical school
- 19 Pelations to other subjects
 - May be divided like the whole classification e g 330 196
 - Tecnocracy

331 Labor and laborers

Employers and capital in relation to labor For economics of Capital see 339, for industrial personnel management see 659.3
See also Capital in Relativ index following Tables For complete list of form divisions see Table 2 after Relativ index

SUMMARY

- 331.1 Relations of capital and labor
 - .2 Remuneration for work
 - .3 Labor of children
 - .4 " " women
 - .5 Work under certain unfavorable conditions
 - .6 Pauper labor Cheap foren labor
 - .7 Different classes of workers Skild and unskild labor
 - .8 Laboring classes: working conditions, organization, etc
 - 9 Other questions
- 01 Theory
 - 011 General conception Nature and character of labor
 - Freedom of labor, psychology of labor See also 150
 - Psychology
 - 013 Importance, utility, dignity of labor
 - 016 Miscellaneous theories
 - Commodity, humanistic etc theories
- .1 Relations of capital and labor
- .11 Labor contracts in general Employment (i c. engaging workers)
 - Agreements recruitment, responsibilities See also 651.34
 - Office workers
- .112 Labor supply Agencies
 - For unmigration and colonization see 375, see also 331.1151
 - Employment buros
- .113 Classification of work and workers
 - Direct and indirect race adaptability age (see also 331.3
 - Labor of children) sex (see also 331.4 Labor of women),
 - abnormal unfortunate apprentice handicap etc (See
 - also 331.5 Work under certain unfavorable conditions),
 - aliens (see also 331.62 Cheap foren labor)
- .114 Equipment of workers
 - Mental and physical qualifications Personality character, natural ability, general and professional or technical
 - education experience, tastes, helth, etc
- .115 Selecting workers
 - Applications references (see also 331.123 Service records, testimonials) interviews characteranalysis tests mental
 - (see also 151.2 Psychologic tests), trade, etc
- i Securing applicants
 - Employment buros or agencies labor exchanges, advertizing for workers For general labor supply agencies see 331.112
- .116 Engaging workers
 - Bargaining individual, collectiv

- 331.12 Department organization
- .123 Service records Testimonials
See also 331.115 References
- .124 Staf Grades Titles and duties
Officers, employes clerks, stenographers, laborers, etc
Material on positions more prominently provided for
elsewhere is better clast under the other number, e g
bookkeepers 657
- .125 Labor maintenance
Follow-up, transfers, promotions, rating of workers
- .126 Turnover
Causes, calculations, cost, statistics
- .13 Termination of labor Unemployment
Reemployment
Causes of termination, warnings, indemnities, cancelation of
contract by employer, layoff, discharge, by employe,
quit (see also 331 892 Strikes)
- .137 Unemployment
Causes, effects, distribution and incidence Reduction of
unemployment rolls without reemployment, elimination of
least fit, advancement of retirement age (see also 331 2544
Social insurance), elimination of young people, prolonga-
tion of schooling (see also 331 3 Child labor) elimination
of women, back to the home movement (see also 331 4
Labor of women) Irregular or seasonal employment,
underemployment See also 364 26 Unemployment and
crime
- 7 Unemployment relief
Financial aid aid thru necessities furnishing worth-
while employment for idle time, e g recreational,
educational, etc , struggle against demoralization and
vagabondage of unemployd See also 331 61 Aid to
paupers by furnishing work
- 8 By industry
82 899 may be divided like 620-699 with 81 divided
like the whole classification for other industries
e g 331 137822 Unemployment in mining, 331 1378177
Unemployment in photography
- 9 By country
Divided like 930-999, e g 331 137972 Unemployment
in Mexico
- .138 Reemployment
- .14 Rules for workshop and office employes
Incentivs Disciplin
Conversation, personal calls or work, soliciting money,
subscriptions, contributions, respect and care for property
(tools, etc) personal appearance, dres, uniforms, courtesy,
indifference, suggestion systems, fines, stoppage of privileges
or wages (for general question see 331 212) See also 331 9
Encouragements to work, offered by government, etc., medals,
decorations, rewards to workers

DECIMAL CLASSIFICATION

- 331 15 Labor relations within the plant
 - Prevention and peaceful settlement of differences See also 331 89 Disagreements between capital and labor
- 151 General questions
- 152 Cooperativ management Industrial democracy Representation in industry
 - Joint board of control works council works or shop committees company unions See also 335 82 Syndicalism corporatism
- 153 Conciliation
- 154 Mediation
 - Official or unofficial
- 155 Arbitration
 - See also 338 91 Industrial parliamentarism
- 156 Joint conferences
- 157 Trade agreements
- 158 Investigation
- 159 Other topics
- 16 Jurisdiction over work Industrial and professional tribunals
- 17 Patronal institutions favoring the personnel
 - Class here only general works either on patronal institutions as a whole or on such institutions as a whole of the same establishment Class publications on an individual patronal institution in the number for such institution Funds for pensions and for aid in general employee stockownership Patronal institutions in special industries See also 331 23 Payment in shares 331 24 Profitsharing
- 18 Relations of capital and labor by industry
 - 182 1899 may be divided like 620-699 with 181 divided like the whole classification for other industries e.g. 331 1822 Relations of capital and labor in mining 331 18177 in photography
- .19 By country
 - Divided like 930-999 e.g. 331 1972 Relations of capital and labor in Mexico
- .2 Remuneration for work
 - Wages hire pay salary See also 364 26 Wages and crime 651 38 Salary etc in office economy
- 21 General questions
- 211 Payment of wages
 - Payrolls mode, place time or frequency of payment etc
- 212 Stoppage Deduction Withholding
 - See also 331 14 Discipline by wage stoppage
- 213 Preferred claims for wages due

- 331.214 **Wage theories**
 Statistical data collection, compilation, use, value, etc
 as bases for theoretic study of wages Wage fund doctrine,
 residual claimant theory, normal value or exchange
 theory. See also 331 215 Wage rate theories
- .215 **Fixing wage rates**
 Wage fluctuations raising and lowering wages, relation of
 wages to supply and demand, to competition relation of
 wages to bargaining power, bargaining theory of wages,
 wage rate theories See also 331 214 Wage theories in
 general
- 3 **Relation of wages to production**
 Marginal productivity or final utility theory of wages
- 4 **Relation of wages to cost of living**
 Living wage money wages v real wages, minimum
 cost of subsistence theory of wages, iron or brazen law
 of wages, saving wage See also 331 831 Cost of living
- 5 **Minimum and maximum wage**
- .218 **Plurality or cumulation of wages**
 By plurality of employment of single individual (see also
 331 65 Abuse of plurality of offices) by earnings of
 various members of family, wages of husband and wife
- .22 **Wage scales Scale contracts**
 Sliding scale, extra pay or wages efficiency bonus, subsidies
 bounties, progressiv wage family allowance systems For
 deductions, stoppage fines, etc see 331 14 and 331 212
- 23 **Bases of wages and kinds of payment**
 By work done job, task piece, by time hour, day, week,
 month, year, kinds of payment truck system store orders,
 shares (see also 331 17 Employee stockownership), payment
 in kind, intervention of middleman farming out, sub-
 contract sweating system (see also 331 5 Work under unfavor-
 able conditions, 331 794 Home workers), commissions
- 238 **Payment by other than employer**
 Fees gratuities, tips
- .24 **Profitsharing**
 See also 331 17 Employee stockownership, 631 114 Share
 systems in farming
- .25 **Pensions Insurance Benefit agencies**
 See also 368 Insurance
- .251 **General questions**
 Voluntary v compulsory insurance State or national v
 private insurance
- .252 **Pensions**
 Sickness old age, invalidity pensions
- .253 **Group insurance**
 See also 331 825 Employer's liability

DECIMAL CLASSIFICATION

- 331 254 Individual insurance
 - Life insurance, etc.
- 4 Social insurance
 - Accident, sickness, etc May be divided like 368 4,
e g 331 254 4 Unemployment insurance See also
331 137 Unemployment, 331 82 Working conditions,
accidents etc
- 256 Homes for the aged
 - See also 362 6 Charitable institutions
- .258 By industry
 - 2-99 may be divided like 620-699 with 1 divided like the
whole classification for other industries e g 331 258 22
Pensions and insurance in mining, 331 258 177 in
photography
- .26 State and wages
- 261 Legislation Laws
 - Divided by country like 930-999 e g 331 261 71 Wage
legislation in Canada
- .262 Wages for state labor
 - See also 331 795 Public service employees
- 27 Professional remuneration
- .28 Wages divided by industry
 - 282-2899 may be divided like 620-699 with 281 divided like
the whole classification for other industries e g 331 282 2
Wages in mining, 331 281 77 in photography
- .29 Wages divided by country like 930-999
 - E g 331 294 2 Wages in England
- .3 Labor of children
 - Including adolescents up to 18 yrs or thru period of compulsory
schooling See note under 331 4 See also 179 2 Cruelty to
children 331 113 Age of workers 331 137 Prolongation of
- .31 Wages
- .32 Hours
 - Length of day, night work overtime holidays, etc See also
331 81 Duration of work in general
- 34 According to age
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.51 Prisons Convict labor

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.53 Convents Charity workshops (Ouvroirs)

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- .7 Different classes of workers Skild and unskild labor**
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.812 **Night work**

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.818 **In special industries**

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822 **Industrial hygiene Medical supervision**

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.825 **Employer's liability Reparation**

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- .832 Consumptive organizations
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- .84 Morals and habits
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- 887 **Unions of child workers**
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- 889 **Compulsory unions**
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- 89 **Disagreements between capital and labor**
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- 891 **Attacks on freedom of work**
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 unorganized or outlaw etc (For sit down strikes see
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- 894 **Methods of employers**
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- 7 Injunctions
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- 895 Lockouts
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 Combating direct consequences of strikes strike-
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 strikers by volunteer workers
- 897 **Strike benefits for employers**
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- 898 Use of troops in labor disputes
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- 9 **Other labor questions**
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 workers workmen's trains

332 Financial economics Private finance

For public finance see 336. For full list of form divisions see Table 2 after Relative index

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 2 Savings banks
 3 Loan institutions
 4 Money Monetary systems Coinage
 5 Nonmetallic money Nonmetallic standards
 6 Investment finance Financial markets
 7 Credit system
 8 Interest Discount
 9 Counterfitting Forgery Alteration

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.II Central banks National banks

Bankers banks reserve banks banks of issue or circulation
 federal banks regional banks, Federal reserve system of U S
 For international central banks see 332 15

12 State or provincial banks Joint-stock banks

Cantonal and communal banks, country banks locally
 chartered banks

.13 Private banks Partnership banks

Banking partnerships

14 Trust companies Investment banking

Trusteeship, investment trusts banks or dealers bond houses
 custodianships, customers' securities departments including
 individuals as trustees See also 332 6 Investment finance

15 International banking Foren banking

Institutions and departments organized to conduct banking
 operations with or in countries other than those in which
 their parent establishments are located including their foren
 agents correspondents, branches and similar affiliates Inter-
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 'Edge corporations See also 332 16 Branch banking 332 45
 foren currency exchange

153 159 Geographic subdivision according to location of parent institution

Divided only geographically like 930-999 May be further
 subdivided after 09 like 930-999 according to country in
 which affiliate is located or with which foren business is
 conducted eg American foren banking 332 1573, American
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16 Multiple banking

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17 Administration

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- 332 2 Savings banks
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- 21 Official savings institutions
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- 22 Postal, express and railway savings banks
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- 23 School savings banks Home or personal savings
 Home savings banks savings boxes
- 24 According to type of organization
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 (see also 337 32 Savings and loan associations) stock
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- 25 Management of savings bank funds
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- 27 Safe deposit companies
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- 31 Credit institutions
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- 311 Agricultural banks and credit institutions
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- 312 Industrial credit institutions
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- 314 Institutions for loaning on salaries
- 3 5 " " " " wages
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- 316 Institutions for loaning on personal qualities
 Local loan institutions making loans based on char-
 acter business ability etc. See also 332 745 Personal
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- 317 Stock exchange banks
- 32 Building and loan associations
 Savings and loan associations cooperative loan associations
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- 33 Monts de piété Government pawnshops
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- 332 4 Money Monetary systems Coinage
 For design and manufacture see 737 Numismatics
- 401 Theory
 6 Miscellaneous monetary theories
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 See also 337 413 Value of money
- 41 General questions
- 411 Functions
 Medium of exchange measure or standard of value
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- 412 Characteristics Qualities
 Acceptability stability of value portability durability
 uniformity divisibility cognizability
- 413 Value
 Money and prices determination of value valuation
 (valorization) stabilization fluctuation appreciation de-
 preciation debasement devaluation (devalorization)
 See also 332 4016 Monetary theories
- 414 Stock Supply
 Variation elastic or flexible currency inflation reflation
 expansion (see also 336 368 Inflation in public insolvency)
 deflation contraction Circulation currency fluctuations
 forst circulation
- 415 Denomination system
 Monetary unit money of account
- 416 Legal tender Lawful money
 For legal tender qualities of specific types of money see
 those types
- 418 Coinage or monetary metals
 Bullion ingots production value supply etc nationali-
 zation Gold electrum silver billon platinum etc
 See also 338 2 Mining production
- 419 Coins Specie Metallic money
 Full bodied coins full weight full value standard coins
 short weight coins token money subsidiary or fractional
 coins Abrasion coins reduced in weight thru circulation
 or sweating circulation tolerance mutilation defaced
 coins clipping filing punching trimming etc
- 42 Monetary standards Metallic standards
 For nonmetallic standards see 332 3
- 421 General questions
- 422
 Gold standard gold coin or gold exchange standard
 maintenance of value in gold gold clause silver standard
 limping or halting standard
- 423 Bimetalism Double standard
 Gresham's law silver question mint ratio v market ratio
 parallel and alternating standards symmetalism

- 332 43 International standards International coinage
International monetary agreements or conventions, e.g. Latin union Scandinavian union
- 44 International monetary congresses
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- 45 Comparativ value of moneys Exchange of foren currencies Cambistry
Rates of exchange, mint par of exchange, gold or specie points purchasing power parities arbitrage of currencies premium agiotage, etc For instruments of foren exchange see 332 77
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- 46 Mints and mint practises Coinage
Coinage restrictions private v government coinage Coinage charges (see also 336 18 Coinage profits as public revenues) mint price of bullion, gratuitous coinage brassage, seignorage profit funds Mint tolerance mint remedy, trial of the pie standard weight, mint wastage Recoinage For design and tecnic of manufacture see 737 See also 669 9 Assaying
- 47 Coinage laws
May be divided geografically and by period like 930-999 e.g. 332 474405 Napoleonic coinage laws, 332 47732 Coinage laws in colonial America
- 48 Other coinage topics
- 49 In special countries
Divided like 930-999 e.g. 332 4937 Money and coinage in ancient Rome
- 5 Nonmetallic money Nonmetallic standards
- 51 General questions
Advantages disadvantages
- 52 Convertibility Redeemability
Specie payments. Tho following topics ar also applicable to non standard metallic money, it seems b st to collect such material here Representativ money having metallic reserves equal to its ful face value Credit or fiduciary money, having metallic reserves equal to only part of its face value, banking and currency theories unrestricted v restricted issue Inconvertible or fiat money, printing pres money, emergency currency See also 336 32 Printing pres money in Public finance
- 53 Paper money Paper standard
Government or public notes gold and silver certificates currency notes (England) assignats, mandats (France) Bank notes either public or private according to official status of issuing bank. Private notes intended primarily for general circulation as money Chamber of commerce notes (France) Loan buro notes (Germany), for notes representing individual transactions promissory notes etc see 332 77 Fractional paper money, e.g. shinplasters scrip, stamp or postage stamp money See also 329 82 Greenback party

332 54

Other nonmetallic moneys

Baring printed or stamp statements of their monetary value Clay tablets, sheets or tokens of leather, wood, etc

.55

Mediums of exchange other than money

Primitive mediums of exchange, commodities as mediums of exchange Skins, cattle cowrie shells wampum grain, tobacco, etc as mediums of exchange

.56

Monetary standards based on value of commodities and service 'Scientific money'

Composite or multiple standards index number standards, commodity dollar etc Standard for prices, for debts or deferred payments Stable consumption v stable income standard Tabular standard (W S Jevons) Compensated monetary unit, compensated or stabilized dollar (Irving Fisher) Managed currency (J M Keynes) Social credit money, etc

.6

Investment finance Financial markets

Bourses brokers boards stock and security exchanges, commodity security exchanges etc

.61

General questions

Organization, administration membership 'seats' officers, trading posts, functions etc Exchanges according to function (financial stock, commodity, etc) Stock exchange commission houses and branch offices wire houses stock exchange clearing houses (for bank clearing houses see 332 78) Stock exchange quotations, security price lists security averages or indexes quotation ticker and ticker services tape and tape prices Outside exchanges or markets over the counter markets unorganized exchanges curb or street exchanges, coulisses auction exchanges bucket shops illegitimate exchanges

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Security brokers and dealers

Agents de change Brokers agents and messengers brokers' clerks remisiers, runners, touts Jobbers traders operators, professionals Specialists brokers and dealers in special classes of securities Coulissiers curb or street brokers bucketeers tipsters illegitimate brokers and dealers

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Investment securities

Negotiable or transferable securities Stocks (or shares) and bonds from economic and financial viewpoint Capitalization total amount of securities issued by an organization Regulations for listing wildcat securities, 'cats and dogs', speculative, fraudulent or worthless securities Corporation debentures rights certificates corporation warrants etc See also 332 76-77 Credit instruments, 658 14 Business financing

- 332.64 Security exchange operations Speculation
 Stock jobbing, agiotage Speculative cycle, financial panics
 (see also 338 53-58 Business cycles 380 124 Trade cycles)
 General trading methods for cash, regular way, for the
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 transactions margins, borrowing and lending securities, etc.
 Trading positions long interests, bulls, stags short interests
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 settlements, backwardation, contango, etc Dealing in
 privileges, calls, puts spreads, straddles Averaging pyramid
 ing Manipulation, cliques, rings, pools, wash sales, corners,
 bucketing, etc Chart and tape reading
- .65 International security operations
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- .66 Public issue of transferable securities
- .67 Investment
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- .68 Lotteries
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- .69 Other questions
- .7 Credit system
 Theory and forms of credit, credit operations credit instruments
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- .71 Agricultural credit
 For promoting agricultural operations Crop loans live stock
 loans etc Federal farm credit system, etc See also 332 311
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- .72 Landed credit Real estate credit
 Mortgage loans, farm mortgage credit, etc Federal farm
 loan system. For mortgage banks see 332 311, for mortgages
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- .73 Popular credit Loans without interest
- .74 Other types of credit
- .742 Commercial credit Industrial credit
 Productive, capital or investment credit Credit for
 special industries maritime credit etc For agricultural
 credit see 332 71, real estate credit 332 72 See also
 332 312 Industrial credit institutions
- .743 Consumptive credit
 Individual or personal credit, i.e. credit extended to
 individuals

- 332.744 According to time of maturity
 Short term, intermediate and long term credit
- .745 According to security or risk
 Personal security, loans based on character, moral risk, or
 on business ability or capacity, business risk Collateral
 security, loans based on capital property risk Unsecured
 credit See also 332 316 Personal loan institutions, 332 72
 Mortgage loans
- .748 International credit
- .75 Credit collapse Credit restrictions
 Moratoriums failure, insolvency, bankruptcy
- .76 Deposit transfer instruments
 Checks, interbank transfer accounts and clearings, French
 transfer system, German giro system telegraphic and cable
 transfers, bank, express and postal money orders travelers
 checks
- .77 Other credit instruments
 Credit instruments in general, commercial paper, etc
 Promises to pay notes, acceptances, open or book accounts
 orders to pay bills of exchange, drafts, letters of credit,
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- .78 Clearing houses
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- .79 Other questions
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- .83 Usury
 Excessive interest
- .84 Discount
 Discounting and rediscounting
- .9 Counterfitting Forgery Alteration
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- 91 General questions
- 92 Coins
- .93 Paper money Currency
- .94 Securities Credit instruments
 Check raising, etc
- .98 Protective measures Safety devices

333 Land Natural resources Real estate

Ownership, rights, rent, policies For other relations see Land in
 Relativ index following Tables See also 338 1 Agricultural pro-
 duction, 339 National resources in general For form divisions see
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.1 Government ownership and control

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.11 General questions**.12 According to government units****.122 International****.123 National****.124 State Provincial Cantonal****.125 County****.126 Municipal****.13 Expropriation Eminent domain**

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.14 Nationalization Socialization**.2 Community ownership**

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.3 Private ownership**301 Theory**

Occupation or seizure theory, ownership as natural right;
 labor theory, etc. See also 335 01 Socialist theories of
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.31 General questions**.32 Types of tenure**

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 corporate, collective, cooperative

.33 Real estate transactions

Alienation or transfer of real property rights, inalienability,
 land investments and speculation buying and selling real
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.332 Valuation

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.34 Registration systems Land titles

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.35 Rights of succession

Inheritance, primogeniture, fideicommissum, mortmain etc
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.37 Large holdings

Latifundia

.38 Small holdings

Land division and allotment, parcelation, etc

.4 Absentee or alien owners

- 333.5 **Rent and renting** **Rural or agricultural rent**
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- 51 **General questions**
 Economic theories of rent land income etc
- 52 **Rental systems**
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- 53 **Tenancy**
- 54 **Landlordism**
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- 6 **Urban rent**
- 62 **Ground rent**
 Rent of land for building industrial development etc
- 63 **Building rents**
 Rent of buildings apartments etc
- 7 **Utilization** **Land classification**
- 71 **General questions**
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- 72 **Conservation of natural resources**
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- 73 **Waste lands**
- 74 **Pasture and grazing lands**
- 75 **Forests**
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- 76 **Cultivated lands** **Agricultural lands**
- 77 **Urban lands** **Industrial lands**
 Lands for building housing industrial development public utilities transportation etc
- 78 **Recreational lands**
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- 79 **Other surface utilization**
- 8 **Subsurface utilization**
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- 9 **Other forms of utilization and rights**
- 91 **Water rights**
 Riparian or littoral rights shore lands land under water water utilization for consumption navigation water power irrigation rights in oceans lakes streams fisheries etc
- 92 **Air rights**

334 Cooperation

Works on cooperation applied to other subjects are generally better classed with those subjects but may be kept together here by using 334 0001 followed by number for other subject e.g. Cooperation in agriculture 334 000163 in business 334 0001658 For full list of forms divisions see Table 2 after Relative index See also 335 Socialism 338 018 Cooperation in economic organization

- .1 **Building societies** **Cooperative housing**
 - Freehold land societies loans organization etc. See also 332 32
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- 11 **General questions**
- 12 **For lease**
 - Ownership remaining with society
- 13 **For sale**
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- .2 **Cooperative banking** **Credit societies**
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- 21 **General questions**
- 22 **Urban**
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- 23 **Rural**
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- 24 **Banking and credit operations of general cooperative societies**
- .3 **Cooperative insurance**
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- .4 **Cooperative housekeeping**
 - See also 331 835 Laborers restaurants 647 93 Cooperative housekeeping methods
- .5 **Consumers cooperation** **Cooperative stores**
 - Distributive cooperation Rochdale system For production activities of consumers societies see 334 6 See also 331 832
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- 51 **General questions**
- 52 **Wholesale societies**
- 53 **Retail societies**
- 54 **Women's cooperative guilds**
- .6 **Producers cooperation**
 - 61 **General questions**
 - 62 **Supply societies**
 - For securing seed implements fertilizer etc
 - 63 **Machinery owning societies**
 - For joint use of threshing machines tractors etc
 - 64 **Production societies** **Cooperative factories**
 - Workers cooperatives

- 334 65 **Marketing or sale societies**
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- 68 **By industry**
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- .7 **Frendly societies Benefit societies**
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- .8 **Burial societies**
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- 9 **Other**
- 335 **Socialism Collectivism**
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 ing political systems ar clast in 321 For political parties see
 329 for broad political and historical aspects see 930-999 See
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- .1 **Utopian socialism Humanitarian socialism**
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- 11 **General questions**
- 12 **English utopian socialism**
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- 14 **Fabianism**
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- 15 **Gild socialism Communal socialism**
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- 2 **Early French utopian socialism**
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- 21 **General questions**
- 22 **Babouvism (Babeuf)**
- 23 **Icarianism (Cabet)**
- 25 **Saint Simonism**
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- 3 **Later French utopian and humanitarian
 socialism**
- 31 **General questions**
- 32 **Fourierism Phalansterianism**
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- 34 **Rational socialism (Colins)**
- 35 **Integral "**

- 5 4 **Marxian socialism Communism**
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- 41 **General questions**
- 42 **Marxian socialist internationals**
- 421 **1st or Old international, 1864-76**
 International workingmen's association *Communist manifesto of Marx and Engels*
- 422 **2d international, 1889-1916**
 International socialist bureau
- 423 **2½ or Vienna international, 1921-3**
 International working union of socialist parties
- 43 **Post Marxian communistic socialism**
- 44 **Communist internationals**
- 441 **Communist international association, 1919-**
 3d Red or Moscow international *Comintern* Russian socialism Bolshevism Leninism Communist manifesto of 3d international For Red international of trade unions *Profintern* 1921- see 331 886 *Bolshevist labor unionism*
- 2 **Communist youth international**
- .5 **Social democracy Evolutionary socialism**
 German post-Marxian socialism revisionism gradualism. See also 335 14 Fabianism
- 51 **General questions**
- 52 **Post Marxian moderate socialist internationals**
- 522 **Labor and socialist international, 1923-**
 New international
- 2 **Young socialists' international, 1923-**
- .6 **Socialism of the chair State socialism**
 See also 338 91 State industrial planning
- 62 **Socialism of the chair Professorial socialism**
- 63 **State socialism**
- 64 **Nationalist socialism Fascism Nazism**
 See also 331 886 Fascist labor unionism
- .7 **Christian socialism Catholic socialism**
- .8 **Syndicalism Anarchism**
- 82 **Syndicalism Corporatism**
 Syndicalist international *International workers of the world (I W W)* *International association of workers (syndicalist)*
 See also 331 152 Industrial democracy 331 886 Revolutionary trade unions 335 15 Old socialism 335 25 Saint Simonism
- 83 **Anarchism Nihilism**
- 831 **General questions**
- 832 **Individualistic and philosophic anarchism**
- 833 **Communist and syndicalist anarchism**
 Violent anarchism
- .9 **Socialist communities**
 Divided like 930-999 e.g. 335 97446 Brook Farm community
 See also 331 2 Community

336 Public finance

National and state. Cameralistic science Government income or revenue, budget, source of income, etc. For financial administration and budget making see 351 71-72, for local finances in general see 352 1 See also 332 Financial economics in general, private finance For form divisions see Table 2 after Relativ index

SUMMARY

- 336 1 Non-tax revenues State domain and properties
- .2 Taxation
- .21 Direct taxes General and classified property taxes
- .22 Real property tax
- .23 Personal property tax
- .24 Income tax
- .25 Other direct taxes
- .26 Customs Tarif duties
- .27 Other taxes
- .28 Local "
- .29 Other questions
- .3 Public borrowing Public debts
- .39 " expenditure
- .4-9 Finance of special countries
- .1 Non-tax revenues State domain and properties
 - Public or crown lands, etc as sources of revenue See also 333 1 Public land in general
- .11 Management and income from rents and franchises
- .12 Disposal Sale
 - Sale of public land buildings, equipment and supplies as sources of revenue only
- .13 Free disposal Grants
 - For development, cultivation, extraction of minerals, etc
 - Land claims, preemption, homesteading
- .14 For encouragement and aid of special enterprises
 - Land grants to railroads, canal cos, etc, in support of education colleges, etc See also 379 123 Land grants in Education, 385 133 Railroad subsidies
- .15 Income from public moneys Interest
 - From deposits investments, loans
- .18 Sovren and regalian revenues
 - Tributes, indemnities, war reparations, etc., received from conquered, vassal or dependent states. Subsidies from other nations in return for aid in war, etc, from higher government units in aid of internal unprovements or cooperative development of public enterprises, federal and state grants in aid (see also 353 9 State and federal relations) Coinage profits (see also 332 46 Coinage charges) Expropriation, eminent domain, etc (see also 333 13 Land expropriation policy) Fines, penalties forfeitures (see also 343 2 Criminal law) Gratuities, gifts, bequests to government, 'conscience fund', treasure trove

336.274

Licenses

Business and occupation taxes, corporation organization and entrance taxes, taxes on operation of various industries, exercise of various professions, etc. For other relations see License in Relative index following Tables

.276

Death and transfer taxes

Estate, inheritance, legacy or succession, gift taxes

.278

Special taxes

Special tax bases, taxes on special objects or articles May
be divided like the whole classification, e.g. 336 27875
Taxes on paintings

279

Taxes for special purposes

Cleric support, highway taxes, etc. May be divided like the whole classification, e.g. 336 27037 Taxes for education

.28

Local taxes

General discussions and works on special taxes mainly or exclusively local. See also 352.1 Local taxation, 379.13 School funds

.282

Oetroit

Entrance taxes, import octrois, exit taxes, export octrois, transit taxes, local tolls See also 381 Domestic commerce

.283

Special assessments

Levies against property to defray costs of public improvements

.29

Other questions

291

General principles of taxation

Canons of taxation equality, certainty, productivity, etc. Single v multiple tax system (for 'Single tax' see 336 226) Taxable capacity

.292

Tax administration

Organization, tax surveys, assessment, valuation (see also 333 332 Real estate valuation in general), estimates, tax lists, equalization, apportionment among government units national, state or provincial, local Collection tax farming (see also 336 19 Revenue farming in state industries), retention at source, composition, etc, payment in cash, produce, labor, evidences of payment, tax receipts.

293

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tenths or tithes, per centages, muls, etc., graduated
progressiv, depressiv, regressiv

294

Distribution of tax burden

Justice in taxation, incidence, shifting, double taxation, alien and nonresident taxation Exemptions minimum, continuing, vanishing, social, etc. exemptions deductions Exemptions as subsidies, used to attract certain classes of commercial and industrial enterprises Tax evasion, avoidance, fraud

295

Effects of taxation

Economic on production, on distribution of wealth, on
steadiness of employment Social taxation and social
reform, repressive aspects of taxation Political

- 336.3 Public borrowing Public debts**
 Loans to governments, claims against governments. See also 332 7 Credit system in general
- .31 Public securities Funding system**
 Interest bearing government securities, public funds, rentes, funded or bonded debt Government bonds, etc Interest rates (see also 332 8 Interest). Long term and perpetual securities, consols, etc Intermediate securities. Callable and serial bonds Credit bonds
- .32 Short term securities Floating debt**
 Maturing within a year. Unfunded or current debt Fiat or printing press money See also 332 52 Printing press money in general finance
- .33 Sinking fund Amortization**
 Sinking fund 'raids', etc.
- .34 Public credit**
- .341 General questions**
- .342 Character and bases of public credit**
- .343 Forms of public debt**
 According to borrowing unit national, state, local. According to source of loan internal, domestic; external, foreign, private loans According to productivity: productive, unproductive, deadweight, war debts, etc.
- .344 Debt flotation**
 Forced or compulsory, and voluntary loans, bids, subscriptions, allotment, marketability at par, premium, discount
- .345 Burden and economic effects of public borrowing**
- .346 Control and limitation of public credit**
 Increase of public indebtedness, 'pay-as-you-go' policy
- .35 Annuities**
 Contingent, deferred or reversionary, life, annuity, etc.
- .36 Repayment Repudiation**
 Liquidation, retirement, redemption, payment in full, either immediate or gradual, moratorium, cancellation, by mutual agreement, without payment. partial, reduction, scaling down, complete
- .368 Public insolvency Bankruptcy**
 Default, token payments, repudiation partial, by inflation, etc (see also 332 414 Monetary inflation), complete
- .37 Refunding Consolidation Conversion**
- .38 Other questions**
- .381 Lottery loans Premium loans**
 See also 332 68 Private lotteries
- .39 Public expenditure**
 Character, principles, classification and objects, justification, economic aspects of public expenditure For administrative aspects and budget making see 351 71-72
- .4-9 Finance of special countries**
 Divided like 940-999, e.g. 336 51 Chinese public finance For ancient countries 336 093 may be used, e.g. 336 0937 Public finance in ancient Rome

337 **Tarif policy Protection and free trade**

For customs as source of revenue, tarif administration, schedules of duties see 336 26. See also 382 Foren trade For form divisions, see Table 2 after Relativ index

.1 **Absolute free trade No tarif**.2 **Free trade Nonprotectiv tarif**

Tarif for revenue only, fiscal tarifs

.3 **Protection**

Protectiv and prohibitiv tarifs

.31 **General questions**.32 **Ad valorem v. specific duties**

Protectiv aspects See also 336 264 Methods of levying customs

* 33 **Export duties and restrictions**

Export licenses and embargoes, rationing of exports, export quotas, temporary or permanent prohibition of exportation

.34 **Import duties and restrictions**

Licenses, embargoes, quotas, marks of origin, prohibition of importation

.35 **Transit duties and restrictions**

Licenses embargoes, prohibition, etc.

.36 **Tarif systems**

Clas here general discussions of autonomous tarifs Single schedule, general or unilinear, multiple schedule or multi-linear tarifs Maximum and minimum, bilinear or double schedule, general and conventional, intermediate, preferential or differential tarifs See also 337 38 Customs reprisals, 337 91 Tarif treaties, 337 92 Colonial preferential policies

.38 **Customs reprisals Tarif wars**

Discriminatory and retaliatory duties, protection against unfair foren competition, countervailing and antidumping duties. See also 337 36 Tarif systems, 337 91 Reciprocity

.4 **Subsidies Drawbacks**.5 **" " " " " " " " " " " "**

products (books, art objects) under 337 7

.6 **Protection applied to raw materials**

General discussions only. For special articles or groups of articles see 337 5

.7 **Protection applied to intellectual products**

Books works of art, etc

71 **General questions**72 **Books Literary works**.73 **Works of art**

May be divided like 700, e.g. 337.735 Protection applied to paintings

- 337.8 **Free importation of dutiable articles**
 .81 **General questions**
 .82 **Exemption from customs duties**
 Personal, institutional colleges, libraries, museums, etc
 See also 021 861 Libraries (free importation)
 .83 **Customs permit Acquit à caution**
 .84 **Temporary admission Admission temporaire**
 Improvement trade
 .87 **Entrepôt rights Free ports and zones**
 Bonded areas and warehouses
 .9 **Other questions**
 .91 **Tarif treaties**
 Customs unions, Zollverein, conventional tariffs, reciprocity
 (see also 337 38 Customs reprisals), most favored nation
 clause (see also 337 36 Preferential tariffs), bargaining tariffs
 concession and penalty systems
 .92 **Colonial tariff policies**
 Customs relations between mother country and colonies,
 imperial protectionism, tariff assimilation, preferential policy
 (see also 337 36 Differential and preferential tariffs), 'open
 door' policy
- 338 **Production Economic organization and condition**

Industrial economies economic cycles For full list of form divisions
 see Table 2 after Relative index

SUMMARY

- 338.1 **Agricultural products**
 2 **Mining products**
 .3 **Water "**
 .4 **Manufactured products Machinery in industry**
 Intellectual production
 .5 **Prices Cost Business cycles**
 .6 **Systems of productive activity**
 .7 **Organization and concentration of production**
 Entrepreneurship
 .8 **Integration of production Mergers**
 .9 **Industrial legislation**
- .01 **Theory Philosophy of production**
 011 **General conception and field of production**
 Definition, nature and character, forms
 012 **Classification**
 Of elements of production land, labor, capital, entre-
 preneurship, relative importance, interrelations General
 discussions only material on special element clas with that
 element e.g. 333 Land, 331 Labor, 339 Capital, 338 7
 Entrepreneurship

- 338 016 Miscellaneous principles and theories
 Economic laws of production laws of diminishing returns
 marginal utility increasing and decreasing costs com-
 parativ advantage etc Principle of combination of agents
 of production Expanding v mature economy
- 018 Scientific and technical methods
 Specialization diversification division and combination of
 labor distribution of labor (for organization of labor in
 general see 331 87) Change from one economic state to
 another industrialization agronomization Shift within
 fields e.g change of a country from production of one
 commodity or group of commodities to another because of
 action of law of comparativ advantage Cooperation
 competition free exchange (see also 314 Cooperation)
 Control and distribution of production supply and demand
 (for general theory of supply and demand see 380 11)
- 019 History of production theory
 By school and by country 3-9 may be divided like
 930-999 e.g 338 01943 Theory of production in Germany
- 06 Organizations
- 062 Employers associations
- .1 **Agricultural products**
 See also 333 Land ownership, rights rents 630 Agriculture
- .11 General questions
 Relativ contributions of various agents of production
- .12 Organization
 Form one-man corporate etc. Size and type large and
 small farms (see also 631 116 Scale of farm) agricultural
 colonies (see also 331 763 Agricultural labor 362.56 Free
 colonies) workmen's gardens lot cultivation etc (see also
 362 57 Land privilege for paupers) Competition coopera-
 tion unions (see also 630 62 Agricultural organizations)
 cooperativ farming (see also 334 683 Agricultural cooperativ
 productiv associations) See also 631 115 Systems of working
 a farm
- 13 Financial questions
 Costs opportunity cost etc Prices supply and demand
 profits. See also 631 16 Agricultural finances
- 14 Marketing and trade
 See also 631 18 Farm economics marketing
- 15 Agricultural crises
 Maladjustment of production and consumption overpro-
 duction surpluses underproduction crop failures famins
 underconsumption
- 17 Special products
 Divided like 630 e.g 338 1731 Economics of grain production
 but for fish see 338 372 Water products
- 18 Relation to other subjects
 Divided like the whole classification e.g 338 1867 Relation
 of agricultural production to manufactures

- 338.2 Mining products
 - Divided like 338 1, e.g. 338 24 Marketing mining products. See also 332 418 Coinage metals 553 Economic geology, 622 Mining
- .27 Special products
 - Divided like 553, e.g. 338 273 Economics of iron production, but class mineral waters under 338 374
- .3 Water products
 - Divided like 338 1, e.g. 338 34 Marketing water products
- .37 Special products
 - For aquatic vegetable products see 338 1 Agricultural products
- .372 Fish and other aquatic animal products
 - Divided like 590 e.g. 338 37234 Economics of sponge industry. See also 639 Fishing
- .373 Ice
 - See also 621 58 Ice manufacture
- .374 Potable water
 - Common drinking water (see also 628 1 Water supply of towns, 628 7 Rural water supply), mineral waters, carbonated waters, etc (see also 553 7 Economic geology, 663 6 Manufacture of artificial mineral waters)
- .377 Water power
- .4 Manufactured products Machinery in industry
- Intellectual production
 - Divided like 338 1, e.g. 338 44 Marketing manufactured products But manufacturing crises at class under 338 53-58 See also 660 Chemical technology, 670 Manufactures, 680 Mechanical trades
- .45 Machinery in industry
 - Mas production, machinery in special industries 4562-45699 may be divided like 620-699 with 4561 divided like the whole classification for other industries e.g. 338 45622 Machinery in mining 338 456177 in photography
- .46 Intellectual production
 - See also 331 71 Intellectual workers
- .47 Special products
 - May be divided like the whole classification, e.g. 338 47677 Economics of textile production
- .5 Prices Costs Business cycles
 - See also 330 162 Theories of value
- .52 Prices and values
 - Supply and demand in relation to prices (see also 380.11 Commercial theory of supply and demand) Calculation of price cost of production and marketing, profits losses. Price under various conditions monopoly and competitive price. Real prices price indexes
- .526 Price fixing Government regulation

- 338 527 **Prices for various articles**
 May be divided like the whole classification e g 338 5277
 Prices in the fine arts
- 528 **Prices in relation to other subjects**
 May be divided like the whole classification e g 338 52832
 Prices in relation to political science
- 53 **Business cycles Crises Panics**
 Secular trends v bus ness cycles See also 332 64 F nancial
 crises 380 124 Trade cycles commercial fluctuations
- 54 **Business cycles**
 Maladjustment of production and consumption over
 production underpro luction underconsumption as phases
 of bus ness cycles
- 548 **Relation to various subjects**
 May be divided like the whole classification e g
 338 54815 Bus nes., cycles in relation to psychology
- 55 **Crises**
- 558 **In relation to various subjects**
 May be divided like the whole classification e g
 338 558331 Crises in relation to labor
- 559 **General crises**
- 1 **International**
- 3-9 **By country**
 Divided like 930-999 e g 338 5598 South American
 industrial crises
- Each of following 338 56-58 may be divided like
 338 55 e g 338 5691 International industrial panics
- 56 **Panics**
 Prefer 332 64 for banking and financial panics
- 57 **Depressions** **Recessions**
- 58 **Booms**
- 6 **Systems of productiv activity**
 For Cooperativ systems see 334 Socialist systems see 335
- 61 **General questions**
- 62 **Primitiv production**
 Clas system
- 63 **Family system**
 Production by family for family consumption self sufficing
 or isolated production By members of family only single
 family family groups village and manorial systems Slave
 system help or hire system

- 338.64 **Handicraft system Custom system**
 Trade or commercial production, small industry. Unorganized, organized, gild system. In special trades trade gilds (see also 331 88 Trade unions). 338 6462-64699 may be divided like 620-699 with 338 6461 divided like the whole classification for other trades, e g 338 64677 Handicrafts in textil trades 338 64617 Art handicrafts
- .65 **Capitalistic or industrial production**
 Domestic system, house industry, sweating system, factory system large industry
- .7 **Organization and concentration of production**
 Entrepreneurship
 Enterprize See also 658 Management
- .71 **General questions**
- .72 **Individual entrepreneur or proprietor**
- .73 **Partnership Companies**
 Trading companies
- .74 **Industrial corporations**
- .76 **By industry**
 762-769 may be divided like 620-699, using 761 divided like the whole classification for other industries, e g 338 767 Entrepreneurship in manufactures, 338 76177 in photography
- .78 **Corporations in relation to various subjects**
 May be divided like the whole classification, e g 338 7832 Corporations in relation to political science
- .8 **Integration of production Mergers**
 See also 338 91 State and production control
- .81 **General questions**
 Horizontal and vertical combination
- .82 **Monopolies**
 Ethics, methods of obtaining monopoly, agreements, etc., state and monopoly, regulation, prevention (see also 336 19 State monopolies)
- .826 **Monopolies in special industries**
 2-99 may be divided like 620-699 with 1 divided like the whole classification for other industries e g 338 82622 Monopolies in mining, 338 826177 in photography

- 338.83 Industrial pools
For restricting and allotting output Output and money pools
selling buros or agencies, cartels
- .84 Rings Cliques
- .85 Industrial trusts
Methods of formation and operation, financial questions
relations to industrial progress, public welfare, special indus-
tries and various questions, 8562-99 may be divided like
620-699 with 8561 divided like the whole classification for
other industries, e g 338 85622 Mining trusts, 338 8561332
Financial trusts
- .86 Holding concerns
- .88 International combinations
882-886 may be used like 338 82-86 for special types of
international combinations, e g 338 885 International trusts
- .9 Industrial legislation
For labor legislation see 331
- .91 General questions
Intervention of state in production, state and production
control (see also 335 Socialism, 338 8 Monopolies 347 7 com-
mercial law) Official representation of production interests
industrial parliamentarism (see also 324 227 Functional repre-
sentation in suffrage, 331 155 Industrial arbitration 380 126
Commercial arbitration) Authorization control regulation,
inspection Methods of encouragement of commerce and
industry grants, subsidies guarantees of interest premiums,
etc Industrial planning production plans pland economy
international and world planning, national, state, local and
municipal planning planning in special industries (see also
335 6 State and nationalist socialism, 339 25 Organized v
unorganized distribution of welth, 339 49 Conservation of
national resources) ~ } ~ ~ ~
- .92 By subject
May be divided like 338 e g 338 921 Legislation applied to
agricultural production
- .93-.99 By country
Divided like 930-999, e g 338 937 Industrial legislation in
ancient Rome

339 Capital Distribution and consumption of welth

National resources in general For natural resources see 333 See also Capital, Pauper, Pauperism, Welth, in Relativ index following Tables. For form divisions see Table 2 after Relativ index

.1 Comfort and poverty

Pauperism, life and condition of poor Causes of poverty. Absolute and relativ poverty, destitution, penury Prevention of poverty. See also 331 6 Pauper labor, 339.42 Wants, 364 26 Economic status and crime

.14 Mendicancy Vagrancy

Beggars hobos, tramps vagabonds

.16 Poor relief

Indoor v outdoor relief, almshouses, poorhouses Private individual or institutional v. public relief, poor laws. Economic aspects only, for general discussions, methods, etc see 362 5

.18 Comfort

For luxury see 339 45

.2 Division and distribution of welth

Modes and principles of distribution

21 General questions

.22 Inequalities in distribution

.23 Distributiv shares

Respectiv incomes or rewards of agents of production, proceeds of production falling to each Gross v net proceeds (product net) Share of labor wages salaries (for general discussions of wages see 331 2) share of land rent (for general discussions of rent see 333 5) share of capital interest (for general discussions of interest see 332 8) share of entrepreneurship profits, surplus (for general discussions of entrepreneurship see 338 7 for profits in relation to price 338 52)

.24 Accumulation of welth Riches

Individual shares individual welth

.25 Organized v. unorganized distribution

See also 335 Socialism, 338 91 Pland economy, 658 8 Selling

345.2 Codes Revised statutes

.3 Law digests (of statutes)

.4 Reports

Use 4 U S supreme court 41 U S circuit and district courts 415 Periodical collections of various states e g Eastern Reporter etc 42 Reports of individual states

.5 Digests of cases

346 British statutes and cases

Divided like 345 Includes all reports in English language except U S reports

347 General works Treatises

.01 Philosophy .02 Compendia .03 Dictionaries .04 Essays .05 Periodicals

.06 Societies bar associations .08 Polygraphy .09 History

Put law of special topics with subject e g Insurance law 368 Divisions

.1-8 may be disregarded and all English law textbooks arranged in one alphabet by authors

.1 Persons Legal capacity

.2 Realty

.3 Chattels Movables

.4 Contracts

.5 Torts

.6 Family law and inheritance

.7 Commercial and maritime

.8 Equity

.9 Civil trials Procedure Courts Judiciary

91 Civil trials

92 Pleading

93 Forms

94 Evidence Testimony in general not limited to civil trials

95 Remedies

96 Justices of the peace Notaries Sheriff

97 Organization of courts

98 Jurisdictions

99 History of special courts

348 Church law

349 Law other than American and British

Divided like 930-999 and under each modern state divided after a o like 345 with 071-079 used for Treatises like 347 e g 349.44075 is French law of torts 349.4402 is French code or if preferred, 347 may be used to include treatises on law in any country and 071-079 be disregarded after country subdivisions of 349 Roman law is divided

37 Roman law

.01 Philosophy .02 Compendia .03 Dictionaries .04 Essays .05 Periodicals

.06 Societies .07 Education .08 Polygraphy .09 History

371 Sources Ante-Justinian

372 " Justinian

373 History and criticism of sources

374 Institutes ancient Roman law

375 Pandects modern " "

377 Treatises on special topics Divided like 347

350 Administration

Including Military science 1 Theory, 2 Compendis 3 Dictionaries 4 Essays, 5 Periodicals, 6 Societies 7 Education, 8 Polygraphy 9 History

A large number of the questions properly placed under Administration are classed with related topics elsewhere. Some of these are repeated here both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history

351 Administration of central government

.1 Organization of civil service

Officers Method of selection election or appointment Official functions and powers Mutual relations

.2 Civil lists

3 Examination

.4 Tenure of office Discipline See 351 92 Power of removal

.5 Pensions

.6 Reform Spoils system vs. officeholding class

.7 Subjects of administrative action

See also 353 United States, 354 Countries other than United States

.71 Financial administration

See 356 Public finance, public property taxation

.72 Budget Public accounts

73 Internal affairs See also 313 Domestic relations

74 Police measures

.75 Public safety and order See also 352 2 Police 365 Prisons, etc.

751 Press

.752 Reunion and association

753 Weapons

.76 Vice and good manners

761 Liquor regulation See 178 Temperance

.762 Public gaming See 174 6 Ethics

763 Public begging See 339 1 Pauperism

.764 Prostitution See 176 5 Eth. c1

.77 Sanitary police

See 352 4 Boards of health 614 Public health, etc.

.78 Accidents See 614 8 Public health

781 Buildings See 614 85

782 Fires See 614 84

.79 Other

.791 Policing waterways

792 U. S. Coast guard

8 Promotion of public welfare

.81 Means of communication

See 380 Commerce communication

.811 Highways See 388 352 7 Local government

.812 Railways See 385

813 Waterways See 386 387

814 Ferries

815 Bridges See 352 7 Local government

.816 Postoffice See 383

817 Telegraphs See 384 1

- 351 82 Trade and industry
- 821 Weights and measures See 389 Commerce
- 822 Coinage and money See 332 Banks money
- 823 Landed industry
- Agriculture See 630 Useful arts 338 1 Production
- Forests See 634 9 Forestry 333 7 Land
- Mines See 621 Mining 338 2 Production 333 75 Land
- 824 Commercial and manufacturing industry
- See 380 Commerce 338 Production
- 825 Institutions of credit See 332 Banks credit
- Savings banks See 332 2
- Mutual benefit societies See 334 Cooperation
- Insurance See 368 334 3 Cooperative insurance
- Monts de piété See 332 33
- 83 Labor See 331 Capital Labor Wages
- 84 Public charity
- See 339 1 Pauperism 360 Associations and institutions
- 85 Education and worship
- 851 Public education See 379 Education
- 852 Public libraries See 027 4 Library economy
- 853 Art museums See 708 Art
- 857 Worship See 322 Church and state
- Military and naval See 355 359 Army and Navy
- Justis See 340 Law
- Foreign affairs See 341 International law 327 Political science
- 9 Control over the administration
- 91 Administrative control By superior officers
- 92 Disciplinary power
- Power of removal See also 351.4 Tenure of office
- 93 Supervision
- Power to annul or amend specific acts
- 94 Judicial control
- Ordinary courts See 347 5 Law of torts
- 945 Criminal courts See 343 Criminal law
- 95 Administrative courts
- 96 Parliamentary control
- 97 Petitions and addresses
- 98 Investigations
- 99 Impeachment
- 352 Local government county, town, city
- See also 379 Public schools 020 Libraries
- General questions of municipal administration*
- 001 Growth and importance of cities
- 002 Cities and state control
- 003 City as a juristic person a corporation
- See also 347 1 Law of corporations
- 004 City organization municipal elections
- 005 Municipal civil service
- 008 Forms of administration
- Commission manager etc.

Local administration of special countries and cities

01-09 divided by countries like 930-999

352 043 Local government in England

Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows

- 01 County
- 02 Municipal boro
- 03 Parish
- 04 Union See 339 Pauperism
- 05 Sanitary districts See 614 Public health
- 06 School districts See 379 Education
- 07 Highway areas See 352 7

043 Local government in Germany Special cities like 352 043

- 01 Province landtag provincial committee director
- 02
- 03 Circle Circle diet Circle committee Landrat
- 04 Commune
- 05 Towns
- 06 Township

044 Local government in France Special cities like 352 043

- 01 Department
- 02 General council
- 03 Departmental commission
- 04 Prefect
- 05 Arrondissement
- 06 Commune
- 07 Mayor
- 08 Municipal council

.1 Finances* city property and local taxation

See also 336 Public finance

.2 Police**3 Fire department See also 621 68 Fire engines 614 84 Fires****.4 Public health board of health See also 614 Medicine****5 Public buildings and works****6 Water and sewerage works See also 628 Sanitary engineering****7 Streets Highways Bridges Parks**

See also these topics in Relative index for other relations

8 Licenses hack, huckster, entertainment, etc**9 Other topics****353 United States and state government**

Operation of executive branch of government For U. S. congress and state legislatures

* 0 2

x

x

y

See also 342 73 Constitutional law and history 347 9 Judiciary branch

- 01 Administrative centralization
- 02 Separation of powers
- 03 President
- 04 Departments
- 05 Cabinet

.1 State department**.2 Treasury department**

Laws and rules governing treasury, but class reports 336 73 U. S. finance

.3 Interior department**.4 Postoffice department See postal service 383-4973**

- 353 5 Justice department For judiciary branch see 347 9
 6 War department
 See also 355 Army military science
 .7 Navy department
 See also 359 Navy naval science
 .8 Other departments
 .9 State government Divided like 974 979

Apply same decimals for state governments For departments not here specified use 8 and 9 and any of above numbers left blank e g for a state having no navy 7 is free for some local use Judiciary dept of D C 353 97535 353 9 includes history of regiments unless covering a particular period of national history, e g the history of the \ Y 7 h regiment in the civil war is attracted to 973 74 but a general history of the same regiment is 353 97476 Prefer 355 359 see note under 355

354 Organization of central government Countries other than United States

See also 342 Constitutional law and history

Divided geographically by countries like 930-999 Under each country (except where existing country divisions conflict e g 943 Germany 943 6 Austria) the U S divisions 1 State 2 Treasury etc. may be used e g State department of Great Britain 354 421 or for sake of uniformity and because of possible future division of countries (and this is advised for libraries which have not already added the department numbers directly to the country number) these numbers may be added to 06 affix to country number (see Germany below) e g 061 State department etc. But do not use these divisions where a single number is at present used for 2 or more countries (e g 989 Paraguay Uruguay) and for which more specific provision will eventually be made. Add also the following divisions

- .42 Administration of England Central government
 01 Administrative centralization
 02 Separation of powers
 03 Monarch
 04 Privy council
 05 Cabinet

- 43 Administration of Germany Central government
 01 Administrative centralization
 02 Separation of powers
 03 Empire
 032 Bundesrat
 033 Emperor
 034 Ministry
 04 Republic
 06 Departments

Divided like 353 e g 354.43062 Treasury department of Germany

- 07 States Monarchs
 072 Landtag Ministers Council of state
 08 Free cities

- 44 Administration of France Central government
 01 Administrative centralization
 02 Separation of powers
 03 President
 04 Ministers
 05 Council of state

355 Military science

Military in broad sense of land and sea forces but limited to military science tactics strategy etc For War department of U S see 353 6 of other countries use 066 following appropriate geographic subdivisions of 354 e g 354 42066 War dept of England Clas general histories of military units covering several wars and intermediate periods under appropriate subdivisions of 355-359 e g History of 2d U S Cavalry 357 0973 general history of a N Y infantry regiment 356 09747 (see note under 353 9) See also subdivision 4 under special wars in 973 e g Mexican war being 973 62 regimental history of that war is 973 674 See also 172 4 Ethics of war 341 3 War in International law, 344 Martial law 399 War customs 623 Military engineering For form divisions see Table 2 after Relative index

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- 355 1 General questions Military life
 2 Military resources Recruitment and requisitions
 3 Organization of military forces Classification
 4 Tactics Strategy History of campaigns
 5 Training maneuvers and services
 6 Military administration and maintenance
 7 " establishments
 8 " equipment and supplies Materiel
 9 Other topics
 356 Infantry Foot troops 357 Cavalry Mounted services
 358 Other arms and services artillery, engineers, special technical services, air services
 359 Naval science Sea forces Marines, Coast guards, etc.
- .1 General questions Military life
 II Servis periods and retirement
 III Length of activ service Training periods
 Recall allotment of various army classes etc
 II2 Promotion
 By seniority by merit See also 355 134 Military rewards
 II3 Inactiv periods
 Leaves furlos in reserv status availability non active periods periods on half pay sick leaves (undergoing treatment in hospitals sanitariums etc) during captivity internment etc as prisoners of war (see also 365 45 Penal institutions) during imprisonment etc
 II4 Termination of servis Resulting status
 Retirement resignation discharge (honorable or dishonorable) reinstatement proceedings desertion, deth suicide etc Cancellation of commission, etc.

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Veterans Former combattants

Old and disabled soldiers Provision for ex-soldiers, civil employment colonization rehabilitation etc. See also 351 1-6 Civil service and pensions 362 65 Aid in cases of infirmity

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Military life in peace and war

Living conditions etc under various military situations in garrison or camp in the field on the march during maneuvers in battle etc See also 613 67 Military hygiene 641 573 Military cookery

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Military honor Disciplin Remuneration

Military ethics and etiquette

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General questions

Ceremonies breaches of honor courts of honor and inquiry judgments penalties disgrace etc.

132

Military duels

Defense and satisfaction of honor See also 179 7 Ethics of dueling 394 8 Dueling customs

133

Military disciplin Offenses

Military authority and obedience Military crimes mutiny looting malingering etc Disciplinary organization military police gendarmes provost marshals administration of military justice Military punishments corporal punishment flogging etc

134

Military rewards, privileges and advantages

Special privileges salutes honorary insignia brevets decorations medals badges orders etc (For insignia designating function and identity see 355 81) Rolls of honor (*Rolls of honor of a particular war or clast with history of that war*) Gifts booty etc See also 355 112 Promotion 929 7 Military orders and nobility

135

Remuneration

Military pay salary For methods and records see 355 64 pensions 351 5

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Uniforms

As costume System distinguishing rank style color esthetic considerations Etiquet of uniforms regulations as to what to wear under various circumstances. For administrative aspect, see 355 66 description and use 355 81

15

Colors and standards

Flags color guards Limited strictly to military regulations For functional aspects see 355 81 See also 929 9 Flags in Heraldry

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Military celebrations

Commemorations anniversaries jubilees Celebrations relating to a particular war or clast with history of that war

17

Military ceremonials

- 355.2 Military resources Recruitment and requisitions**
 Discussions of value and availability of peace time national resources if needed for defense and in time of war Legislation providing for militarization of national resources in case of need for war or defense For administration after being taken over by the military see 355 6
- 21 General questions**
 Preparedness rediness of resources for mobilization conscription of welth and property economic preparedness military tax sabotage of military resources etc.
- 22 Men Recruitment**
 Obligations of citizens with respect to national defense militia system national guard (For relations of government to maintenance of public order see 351 74 Government police mesures) Voluntary and compulsory enlistment conscription drafting universal service recruits from military schools *commissioning of officers* *Foren enlistments* Exemptions bounties evasion of service conscientious objectors etc Administration of recruiting quota system etc Medical physical and mental examination of recruits. See also 151 2 Psicologic mesurements 616 075 Medical diagnosis
- 23 Civilian mobilization**
 Maintenance of war morale information service and propaganda censorship Protection of civilians feeding remuneration for damages etc Duties of civilian employes provision for civil officials Internment of civilians and enemy aliens, civil concentration camps For military prisons see 355 71, see also 365 45 Penal institutions
- 24 Raw materials**
 Unprocest materials availability etc for military use. Agricultural mineral etc food stuffs fuel etc Economic resources in general
- 26 Industrial resources and mobilization**
 Procest materials manufactures provisions etc Availability and conscription of private enterprize commercial and financial mobilization
- 27 Transportation facilities**
 Roads (see also 623 62 Military roads) railways (see also 623 63 Military railways) vehicles canals ships merchant marine (see also 359 27 Availability of merchant marine for naval use 387 8 Merchant marine in general transportation) Routes of travel distances strategic importance etc Limited to peace time systems of transportation and their availability in time of military need See also 355 43 Strategic lines and bases

- 355.28 **Effectiv mobilization Military requisitions**
 Declaration of imminence of war, application of emergency powers, calls to arms, order of call Commandeering of animals, vehicles, forage, real property, etc. Establishment of military zones, closing frontier, etc.
- .3 **Organization of military forces**
 Classification of personnel
- .31 **Army units and organization**
 Constituent divisions for administrativ purposes Armies, corps, divisions, regiments, army posts, companies platoons, squads, etc Special and incidental units and formations, guards, foren legion, detachments, parade and inspection units, etc For classification according to military obligation and field of service see 355 35 For special arms see numbers for those arms, e g. 356 Infantry, 357 Cavalry, 358 Technical services, artillery, etc
- .33 **Officers Military hierarchy**
 Ranks and grades of personnel, military commissions Commander in-chief, hedquarters staf, inspectors, commanders, generals, captains, aides-de-camp, adjutants, etc.
- .331 **General questions General command**
 General principles of command, whether of large or smaller units Leadership and command of troops, preparation of orders, field correspondence, passes, etc
- .338 **Enlisted men Privates**
 For functional classification see numbers for various arms and services, e g. 356 Infantry
- .34 **Special services**
 Outside and independent of the regular arm or grade Officers or men detaild outside their regular grade as instructors, paymasters, quartermasters commissary officers, color bearers, etc Various functions common to all arms including work not strictly military Signal and intelligence services, dispatch carriers, postal service, scouts, orderlies, drummers, buglers, etc, spies, attachés Accountants, carpenters, machinists, chauffeurs, tailors, cooks, librarians, etc
- 35 **Armies General stafs**
 Clast according to military obligation and field of service For military units see 355 31
- 351 **Continental or home armies**
 1st or front line, 2d line, reservs, 3d line, territorials, frontier troops or guards, etc.
- 352 **Colonial armies**
 Expeditionary forces nativ troops, auxilianes, etc
- 356 **Allied forces**
 United forces of coalitions or alliances
- 357 **International armies**
- .358 **Secret or conceald arms and armaments**

- 355 4 **Tactics Strategy History of campaigns**
 Plans for attack and defense Tactics and strategy of a special
 arm should be clast with that arm See also under 355 5 Practis
 maneuvers
- 41 **Logistics and field service**
 General details of movement and supply of armies in activ
 service
- 411 **March tactics**
 Tactics of troops on the move
- 412 **Encampment tactics**
 Tactics during halts guard duty outposts etc.
- 413 **Scouting Reconnaissance Patrols**
- 415 **General tactical services**
 Establishing and maintaining lines of communication
 routes of travel rates of progress etc (see also 623 6
 Military roads and bridges in Military engineering)
 Maintenance of supply service magaz nes arsenals etc.
 Tactics of camp organization and safety of medical
 service evacuation of wounded etc Establishment of
 telegraphic and similar connections (see also 623 7 Technical
 aspects of military signaling) Handling prisoners of war
 etc
- 42 **General tactics**
 Offensiv and defensiv tactics in time of battle Tactics of
 combined arms land and sea forces when working together
 See each arm for its peculiar tactics
- 421 **General questions**
 Command and troop liaison tactical rides general staf
 journeys etc.
- 422 **General battle tactics**
 Offensiv and defensiv Debarkation and landing ma
 neuvers storming night attacks counter attacks
 retreats destruction of works factories supply depots etc
- 423 **Influence of terrain on operations**
 Tactics in wooded areas inhab ted regions in the moun
 tains along water courses etc Stream crossing etc
- 424 **Use of various auxiliary means**
 Temporary fortifications trenches bridges special means
 of communication balloons dogs pigeons etc
- 425 **Guerrilla warfare**
 Indian fighting etc
- 426 **Riot duty Street fighting**
 Civil warfare
- 427 **Colonial tactics**

- 355 43 **Strategy**
 General military planning Plan of concentration arrangement and deployment of troops Strategic lines and bases (see also 355 27 General transportation facilities) Strategy of offensiv and defensiv operations means of diverting attack of enemy smoke screens camouflage, etc. Evaluation of forces study of terrain, influence of morale determining proper moment to strike, calculating duration of war etc
- 44 **Siege warfare**
 Attack and defense of towns fortified places etc. Investment blockade bombardment assault mine warfare, etc For engineering aspects see 623 2 3
- 45 **National defense**
 Fortified defensiv positions and zones barrier forts etc Military division of territory distribution location and placement of troops garrisons Defense of industrial areas frontiers coasts provision of zones of inundation flooding etc
- 47 **Military geografy**
 Geographic works written from military point of view and works on strategic conditions in particular theaters of operation. Preservation of military charts etc Divided like 930-999 e.g. 355 4773 Military geografy of U S
- 48 **Military history**
 Technical accounts and analyses of special wars campaigns battles and military events including similar discussions of imaginary wars and battles. In general preferably clast with wars to which they belong in 930-999
- 5 **Training maneuvers and services**
 Instruction of troops and subaltern grades military practis and games
- 51 **General questions**
 General garrison and field service mobilization maneuvers demobilization etc.
- 52 **Grand maneuvers** **Instruction camps**
 War games with 2 armies maneuvers of combined arms. Maneuver and drill grounds field exercises Concentration tests fortress maneuvers etc
- 53 **Special formations and maneuvers common to various units**
 Tactical exercises in the field or over irregular terrain. General formations march assembly combat parade bivouac etc. formations Embarkation marching halting etc maneuvers Safety and reconnaissance practis Offensiv and defensiv maneuvers pursuit, retreat, renewal of supplies etc.

- 355-54 **Elementary training of units Tactical exer-**
 cizes for recruits
 See also numbers for separate arms in 356-359
- .541 **Foot maneuvers**
 With or without arms, executing the manual of arms,
 target practis, small arms practis, rifle ranges See also
 623 44 Small arms in Military engineering, 796 Athletic
 sports and games
- .542 **Mounted and motorized maneuvers**
 With or without arms, manual of arms for mounted
 troops, practis with saber, lance, etc
- .543 **Artillery maneuvers**
 Artillery ranges and practis firing See also 623 4-5
 Artillery and Gunnery in Military engineering
- .544 **Camp and fortification operations**
 Field engineering, castremetation, camp making (see also
 623 613 Military establishments in Military engineering)
 Temporary fortifications, accessory defenses, batteries,
 obstacles, demolition and repair Field kitchens, etc
- .55 **Officers' maneuvers and exercizes**
 Staf field exercizes Theoretic problems, map and chart
 maneuvers, military operations workt out with miniature
 apparatus, counters, colord disks, etc.
- .58 **Maneuvers involving the civil population**
 Safety activities, warning and intelligence service, blackout,
 rescue maneuvers, demonstrations, etc
- .6 **Military administration and maintenance**
 Clas here only the workings and direction of central administrativ
 services For personnel and organization of these services for
 special arms see appropriate subdivisions under each arm in
 356-359
- .61 **General questions**
 Interior administration, adjutant's dept, civil employes etc
 Record keeping, filing systems, paper work in general Gen
 eral correspondence, issuance of orders, authorization of
 expenditures, adjustments, etc
- .62 **Execution of administrativ mesures**
 Contracts, accounting (financial, materials)
- .63 **Control and supervizion**
 General administrativ inspection service and organization
 Intendance and commussariat in general

- 355 64 Paymaster's department
Administration of pay, allowances, pensions etc For pension systems see 351 5, pay systems 355 135
- .65 Subsistence department
Administration of food supply service, marketing, rationing, distribution, etc
- .66 Clothing and equipment department
For uniforms as costume see 355 14, description and use 355 81
- .67 Lodging administration
Provision of quarters, maintenance and upkeep, heating, lighting, ventilation, etc
- .68 Animals
General administration
- .69 Other administrative services
Transportation maintenance, etc
- .7 Military establishments
Organization and service of permanent and quasi-permanent building groups as military units, including private establishments performing military functions and contracts See also 358 36 Military construction services, 359 7 Naval establishments, 623 6 Military establishments in Engineering, 725 18 Architecture of military buildings
- .71 Cantonments Lodgings for troops
Barracks, military headquarters, posts, school groups camps, billeting arrangements military prisons lodging equipment, etc For civil concentration and internment camps see 355 23 See also 365 45 Penal institutions
- .72 Sanitary and medical establishments
Hospitals, infirmaries, sanitariums, etc
- .73 Artillery establishments
Arsenals, military foundries and workshops, munitions factories, matériel depots powder factories and magazines, target ranges and proving grounds artillery schools, etc See also 623 47 Arsenals in Military engineering
- .74 Engineering establishments
General shops and factories depots and testing grounds for engineering materials
- .75 Administrative establishments
Subsistence and general equipment establishments, bakeries kitchens provision and fodder storehouses supply farms water supply, clothing manufacture and repair establishments, etc.

- 355.8 Military equipment and supplies Matériel**
 Military stores, description, issue and use, quartermaster's dept, etc. For equipment of a particular arm see number for that arm in 356-359
- .81 Clothing Camp equipment**
 Uniforms and other wearing apparel, head coverings, buttons, shoes, leggings, underwear, functional insignia, etc. (for decorative and honorary insignia see 355 134, see also 355 14 Uniforms as costume, etiquette of uniforms, 355 66 Administrative aspects) Accouterments canteen, knapsacks, baggage, etc. Camp equipage, everything necessary for camping, tentage, field kits bedding, rations, stoves, cooking and mess utensils (see also 641 573 Military cookery), camp flags, colors and insignia identifying various units, etc (see also 355 15 Flag regulations)
- .82 Arms and ammunition**
 Administrative questions, working and reserve supply, storage, issue, etc For mechanism and relative efficiency of different kinds see 623 4
- .83 Transport equipment**
 Wagons and other vehicles, harness and other accessories Packing and shipment of goods Transport trains sled and pack trains, etc Railroads troop ships, transport planes, etc Mechanical transportation, motor transportation, tractors, etc Artillery vehicles including the guns themselves Pontoons, boats ambulances, etc Skates, skis, snowshoes, etc Transport animals, horses, mules, camels, elephants, dogs, etc
- .84 Pioneering tools**
 Digging and intrenching tools Tools for preparing roadways, cutting thru forests, etc
- .85 Nonpioneering tools and instruments**
 Communications equipment, etc
- .86 Recreational equipment**
 Athletic equipment, musical instruments, etc
- .87 Archival and documentary materials**
 Materials for record keeping, printed forms, etc.
- .9 Other topics**

- 356 Infantry Foot troops**
- 1 General questions**
 - Personnel and organization
 - 11 Main infantry units**
 - Infantry of the line light mounted cyclist etc infantry
 - foot chasseurs shock etc units mecanized infantry
 - 12 Colonial infantry**
 - 13 Organizations eventually subject to mobilization**
 - Firemen customs officials foresters and other government
 - s rvices specially lable to infantry service Reservs
 - national guard infantry etc
 - 14 Volunteer corps**
 - 15 Irregular troops**
 - Corps francs existing only during war self-organized
 - infantry guerillas brigand troops etc
 - 16 Infantry units performing special functions**
 - Fus hiers grenadiers sharpshooters machine gunners
 - scouts etc Alpn parachute ski etc units
 - 18 Tactics and maneuvers Equipment**
 - Dril regulat ons infantry manual of arms Marching
 - stream crossing fring musketry small arms practis and
 - inspection etc Infantry equipment clothing arms
 - bayonets swords pistols etc (see also 355 8 Military
 - equpment and supplies in general)
 - 2 Staf and special services**
 - Personnel and organ zation Staf officers adjutants assist
 - ants aides etc Staf clerks secretaries etc Intelligence
 - s rvices espionage information records etc Special technical
 - and scientific services cifers etc Staf activities during
 - maneuvers field service etc Chancery and protocol services
 - etc See also special technical serv ces in 358 3
 - 3 Administrativ staf and auxiliary services**
 - Personnel and organization Intendance sanitary s rvce
 - recru ting etc See also 355 6 General mlitary admin stration
- 357 Cavalry Mounted services**
- Special mounted troops outside the other regular arms and gen
 - eral quest ons c ncerning animals in army service ar in luded
 - here.
 - 1 General questions**
 - Personnel and organization
 - 11 Main cavalry units**
 - Cavalry of the line heavy reserv light etc cavalry
 - For mecan zed cavalry see 357 5

- 357.12 Colonial cavalry
 .14 Volunteer cavalry
 .15 Irregular "
 - Guerilla, brigand, etc. cavalry
- .16 Cavalry units performing special functions
 - Cuirassiers, carbineers, lancers, hussars, mounted chas-seurs, dragoons, cavalry pioneers, etc.
- .17 Cavalry and draft animals
 - Horses, mules, oxen, camels, elephants, etc. For adminis-trativ functions see 355 68, remount service and training 357 2
- .18 Tactics and maneuvers Equipment
 - Cavalry manual of arms Stream crossing, cavalry out-posts, reconnaissances, cavalry field service, firing instruc-tions, cavalry sword exercises, etc. Cavalry equipment, uniforms, arms, etc. (see also 355 8 Military equipment and supplies in general)
- .2 Remount and training services Breeding establishments
 - Personnel and organization Securing and training cavalry mounts, training camps, equitation, remount depots breed-ing, care, etc
- .3 Army equipment train
 - Personnel organization, establishments provision and muni-tion columns, etc
- .5 Mecanized cavalry
 - Cyclist, motorcycle, automobile, etc. cavalry Technical corps, fuel and other supplies See also 358 1 Tanks, armored cars, etc.
- .7 Cavalry staf and special services
- .8 Administrativ staf and auxiliary services
- 358 Other arms and services
 - Artillery, engineers, technical services, etc Personnel, organiza-tion equipment, tactics, etc
- .1 Artillery
 - Types of artillery units field, mountain, coast, antiaircraft, etc Combat vehicles tanks, armored cars, etc (see also 357 5 Mecanized cavalry) Artillery tenders and auxiliary services Artillery animals, motorized artillery, etc For ordnance, gunnery, etc see 623 4- 5 Military engineering
- 2 Engineers
 - Pioneers, sappers, miners, bridge and road engineers, railroad units, torpedo units, etc Communications services tele-graphists, signalers, radio operators searchlight engineers, etc Electricians, etc See also 623 Military engineering

358 3

Special technical services

Military artisans services connected with manufacture of war matériel munitions powder, etc., with construction of military buildings camouflage service etc 358 31-37 may be divided like 623 for services not otherwise specially provided for e.g. 358 36 Military construction services 358.377 Camouflage services In general prefer 623 Military engineering See also 355 7 Military establishments

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Air service

As separate service or connected with army or navy Personnel organization equipment tactics etc Aeronautic establishments airfields etc. See also 623 74 Military aeronautics 629 13 Aeronautic engineering

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Naval science**Sea forces**

For Navy dept of U S see 353 7 of other countries use 067 following appropriate geographic subdivisions of 354 e.g. 354 42067 Navy dept of England See also subdivision 5 under special wars in 973 e.g. naval units in Mexican war 973 625 For naval affairs considered in conjunction with general military science see various subdivisions under 355 see also note under 355 See also 527 Navigation 613 68 Naval hygiene 623 8 Naval architecture For form divisions see Table 2 after Relative index

1-8 may be divided so far as applicable like 355 1-8 e.g.

359 3 **Organization of naval forces**

31 Naval units Fleets squadrons flotillas etc Crews divisions gun crews etc

32 Special types of ships

33 Naval hierarchy officers Fleet commander admirals rear admirals captains lieutenants ensigns midshipmen war rant officers boatswains, petty officers etc

338 Enlisted sailors

35 Navies Class according to military obligation and service Main fleets reserve auxiliary and colonial fleets coast defense landing forces etc

5 Naval training maneuvers

54 Training ships

9 **Other topics** **Special services**

96 Marines Naval infantry

97 Coast guards

In time of war For Coast guards in general see 351 792

98 **Special technical services**

981 Naval artillery

982 " engineers

360 Welfare and social associations and institutions

This covers what is best known as Charities and corrections and general works on this topic go in 360 Under each section 9 is used as in 362 9 for grouping by location e. g. Clubs of London at 367 9431

Class under 360 all which concerns welfare work insurance and associations having a social character and not devoted to some special field. Those devoted to some special field (religious commercial academic artistic sporting literary etc.) are classed under their own subject divisions See also 060 General societies 334 Cooperative societies

361 Charitable

See also 377 7 Charity schools For humane societies see 179 2

01 Principles of welfare work

Responsibility charity philanthropy mutual aid

.1 Medical aid in general

Medicine for poor free medicine medical and pharmaceutical aid

See also 362 1 Hospitals for sick and wounded

2 Aid according to place where given

In country or city at home or in institutions

.3 Aid according to person relieving

See also 362

4 Aid according to kind

Funeral expenses

5 Certain exceptional cases

Calamities disasters plagues

51 Earthquakes

52 Floods

53 War

54 Epidemics

55 Famine

56 Fire

6 Official or public aid in general

7 Private aid in general

73 Contributions Charity entertainments

8 Charity organization

United work cooperation and association of charitable works charity information bureaus

362 Hospitals, asylums, and allied societies

01 Discussions of purpose, nature and character

1 Sick and wounded

See also 361 1 Medical aid in general

11 General hospitals Contagious wards pesthouses

Infirmaries

Treatment at hospitals

12 Dispensaries

13 Sanitariums and bath establishments

Special sanitariums for incurables, cancer patients, lepers, epileptics, convulsives, nebrates Sanitariums at high altitudes. Baths and watercures. Establishments for sea baths

DECIMAL CLASIFICATION

- 362 14 Medical cases treated at home
- 145 Distribution of medicins
- 15 Maternity hospitals
 - Institutions for women in confinement and for infants
 - See also 352 72 Institutions for foundlings
- 16 Convalescents
- 18 Wounded and disabled City ambulances
 - See also 614 88 Life saving
- 19 Other *
- 196-198 divided like 616-618
 - E.g. 362 1973 Orthopedic hospitals
- 2 Insane
 - For other relations see Insane Insanity in Relativ index following Tables
- .3 Idiotic Imbeciles Feeble-minded
 - For other relations see Idiotcy Idiots in Relativ index
- 4 Blind Def Dum
 - See also 371 91 Education
- 5 Paupers Poor
 - For other relations see Pauperism Paupers in Relativ index
- 51 Beggary Vagrancy Poorhouses
- 52 Lodgings for poor
 - Dormitories warm halls Work in return for lodgings
- 53 Money aid
 - Charity bureaux Right of poor to be helped Savings funds
- 535 Taxation of poor
- 536 Loans Loan funds for the needy
- 54 Aid thru necessities and conveniences
 - Distribution of food clothing and fuel Cooperativ kitchens ovens stoves
 - See also 331 835 Popular restaurants
- 55 Marriage Dowry Legitimation
- 56 Free colonies pauper or workmen s
- 57 Land privilege
 - Lots for cultivation
- .6 Aged Infirm Bereft
- 61 Homes for the aged
- 62 Retiring pensions
 - Funds for retirement and aid Mutual aid funds
- 625 For widows and orfans
- 65 Infirm Aid in case of infirmity
- 67 Death and to survivors widows dependents
 - See also 362 625 Pensions for widows and orfans 362 7 Aid to children
- 7 Childhood and youth aid, protection, support
 - Child welfare See also ethics 179 2 Cruelty
 - See also 331.3 Child labor 331 86 Apprentisshe p 372 2 Kindergartens
- 71 Nurslings
 - Giving over nurslings to 3d party Crèches Protection of infants
 - See also 362 15 Maternity hospitals
- 72 Natural children Foundlings
- 73 Orfans Orfan asylums Adoption and help
- 74 Children neglected illtreated perverted
 - See also 179 2 Cruelty to children
- 75 Various classes of children
 - Children of soldiers sailors public officers

- 362 76 School enterprizes
 761 Distribution of food at school
 Cooperat v children s k tchens pupils lunch rooms soup for pupils
 764 Distribution of books and school supplies
 766 School patronage
 77 Distribution of clothing
 78 Sick and crippled children
 Special hosp tals and sanitariums for children
 .8 Other
 .9 Special countries
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- 363 Political
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- 364 Reformatory organizations and activities
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 See also 312 7 Moral condition of population 343 Criminal law
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 Police mesures 352 2 Local police For form divisions see Table 2
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- 1 General questions
 .2 Crime nature, character, causes
 3 Criminal classes Offenders Delinquents
 .4 Crime prevention
 5 Reformatory and correctional courts
 6 " mesures Parole Probation
 7 " institutions
 8 Discharged convicts
 9 In special countries
- .1 General questions
 .2 Crime
 Nature character causes definitions of crime Popular and
 general discussions of the problem of crime See also 364 34
 Criminal responsibility
- 21 General questions
 Increase of crime crime waves lawlessness etc
- 22 Physical environment and crime
 Ecology of crime Crime and topograpy climate seasons
 time of day light and darkness etc
- .23 Heredity and crime
 Atavism and hereditary degeneration family degeneration and
 crime See also 364 253 Degenerate homes and crime, 575
 Evolution 613 9 Hygiene and heredity

- 364.24 Individual factors and crime
- .241 General questions
- .242 Physical factors and crime
Stigmata of crime Influence of anatomic, physiologic and hygienic factors (see also 364.333 Criminal physiognomy and anatomy) Crime and age, sex, disease and deformity, etc
- .243 Abnormal mental factors and crime
Mental superiority, genius and crime, mental inferiority, insanity, feeblemindedness and crime Crime and hypnotism, somnambulism, passion, etc See also 132 Abnormal psychology, mental derangements, 134 Hypnotism, 135 5 Somnambulism, 157 4 Passions 364.34 Criminal psychology
- .25 Social factors and crime
- .251 General questions
- .252 Social progress and crime
Civilization and crime, influence of simple v complex cultures. Legislation and crime, attitude of public, defective administration of criminal justice, special types of laws and crime (see also 364.44 Law enforcement) Science and crime
- .253 Social environment and crime
Density of population Conditions in home and family housing, overcrowded homes size of family, degenerate homes (see also 364.21 Degeneration and crime), marital status and relation of parents broken homes employed mothers, dependent children, lack of parental control, illegitimacy, etc Conditions in neighborhood community influence Influence of correctional institutions (see also 364.7648 Effects of reformatories, 365.648 Effects of prisons and jails)
- .254 Cultural factors and crime
Religion and crime Education and crime literacy, illiteracy, school retardation, lack of character training in home and school (see also 379.21 Education) The press and crime (see also 070.11 Journalism) Theater and crime motion pictures, etc (see also 792 Theater) Art and literature and crime (see also 365.88 Prisons in literature)
- .255 Leisure and recreation and crime
Influence of playgrounds, sports amusement and public parks, public dance halls, cabarets etc, pool rooms school stores, automobiles, absence of places of recreation, public and commercial For theater and crime see 364.254
- .256 Social conflicts and crime
Individual social maladjustments, immigration and crime (see also 325.1 Immigration) class hatreds (see also 323.3 Social groups), vendettas, feuds, racial conflicts (see also 323.1 Racial groups, 364.335 Race and crime)

- 364.257 Influence of war and militarism
Post-war effects
- .258 Politics and crime
Theories of government and crime See also 365 1 Politics and penal institutions
- .259 Other social factors
- .26 Economic factors and crime
Influence of mode of production capitalistic, socialistic, etc.; of occupation* special industries, child labor and crime (see also 331 3 Labor of children), of business cycles and economic crises, of labor disputes and strikes (see also 331 89 Disagreements between capital and labor), of unemployment (see also 331 137 Unemployment), of economic status poverty, pauperism, wealth (see also 339 1 Poverty, 339 4 Use of wealth), of standards and cost of living, wages, struggle for existence (see also 331 2 Remuneration for work, 331 831 Cost of living), etc.
- .28 Cost of crime
See also 365 63 Cost of institutional treatment
- .3 Criminal classes Offenders Delinquents
Studies of inmates of correctional institutions For criminals classed by cause see 364 2, kinds of penal institutions see 365 3
- .301 Theory
- 4 Language Nomenclature
Including language of criminal classes, criminal argot, slang, etc
- 8 Scientific methods of studying offenders
Psychologic methods, mental testing (see also 151 2 Psychologic measurements, 364 34 Criminal psychology), psychiatric and psychoanalytic methods Physiologic diagnosis (see also 616 075 Pathology) Social case or autobiographic method, individual case study Anthropologic, biologic or eugenic, ecologic (environmental studies), statistical, etc. methods
- .31 General questions
- .32 " types of criminals
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- .33 Criminal anthropology
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- .331 General questions
- .332 The criminal type
- .333 Criminal physiognomy and anatomy
See also 364 242 Anatomic factors of crime
- 334 Criminal anthropometry
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- .335 Criminal ethnography Race Nationality
See also 364 256 Racial conflicts and crime

364 34

Criminal psychology

Psychology of a specific type of criminal is best dealt with that type Criminal responsibility, social accountability, freedom and determinism in crime (see also 364.2 Crime nature, character, causes) Growth of idea of committing crime Psychologic effect of treatment, effect of punishment, reformatory measures, etc. Criminal personality, traits intellectual, moral, esthetic (tattooing, etc.), social, etc See also 130 and 150 Psychology, 364.243 Abnormal mental factors and crime, 364.3018 Psychologic methods of studying offenders

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Potential near and quasidelinquents

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Juvenil delinquents and delinquency**Incorrigibility**

Jails and juvenil offenders, studies of juvenil inmates of correctional institutions See also 136.763 Childstudy, 364.52 Juvenil courts, 364.624 Parole for juvenil offenders, 364.634 Probation for juvenil offenders, 364.722 Reformatory institutions for juvenils 365.42 Prisons for juvenil offenders

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Truants Truancy

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Boys Gangs

Studies of boy inmates of correctional institutions See also 136.77 Childstudy

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Girls Gangs

Studies of girl inmates of correctional institutions See also 136.775 Childstudy

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Studies of men inmates of correctional and penal institutions

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Women offenders

Studies of women inmates of correctional and penal institutions See also 365.43 Prisons for women offenders

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Groups of offenders

Organized, criminal gangs (for boy gangs see 364.363, girl gangs 364.364) unorganized crowds mobs

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Offenders by type of crime committed

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- 364.4 **Crime prevention**
- .41 **General questions**
 - .42 **Control of population**
 - Control of number of people: size of family, birth control (for birth control see 173.3 Ethics, 612.63 Physiology, 613.94 Eugenics), control of immigration and emigration (see also 325 Immigration and emigration) Control of quality of people thru negativ or positiv eugenics (see also 613.94 Eugenics), thru sterilization, etc (see also in Physiology 612.6161 and 612.6211), thru segregation See also 312 Demography
 - .43 **Control of economic conditions**
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 - .44 **Socialization of fundamental institutions**
 - Home and family, school and education, provision for normal children and those handicapt physically, mentally, socially, etc., church and religion, community and neighborhood, playground and amusements, the pres, government and law, law
 - .45 .
 - .46 **Preventiv police work**
 - .47 **Rational treatment of offenders**
 - .48 **Cooperation of public**
 - Enlightend public opinion, crime prevention by employers
 - .49 **Other**
 - .5 **Reformatory and correctional courts**
 - Activities, procedures, etc For criminal court activities see 343
 - See also numbers for specific types of offenders juvenil, adult
 - .51 **General questions**
 - .52 **Juvenil or children's courts**
 - See also 364.36 Juvenil delinquents, 364.634 Probation of juvenil offenders
 - .521 **General questions**
 - .522 **Functions Powers Jurisdiction**
 - .523 **Administration**
 - Organization, personnel judges, referees social workers, clinicians (phiscians, psychiatrists, etc), supervizion, standards For probation officers see 364.632
 - .524 **Laws and legislation**
 - .525 **Practis and procedure**
 - Process before hearing, treatment by police, detention of juvenil offenders (see also 364.36 Jails and juvenil offenders, 365.34 Detention houses), clinic treatment of offenders, hearing and disposition of case
 - .526 **Records**
 - Systems, forms, record writing
 - .527 **Results Defects Reforms**
 - .528 **Relations with other agencies**
 - With the home, foster homes, children s homes, school, church, community, social agencies police, other courts, etc.
 - .529 **Other topics**
 - .53 **Domestic relations courts Family courts**

- 364.6 Reformatory measures . Clemency**
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- .61 General questions**
- .612 Personnel**
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- .613 Administration**
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- .614 For special classes**
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- .615 Beneficiaries**
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- .63 Probation Suspended sentence Reprieve**
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- .72 Types**
- .722 Institutions for juvenils**
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- 723 Institutions for adults**
Magdalen houses, training schools, etc See also 364.37 Adult offenders
- 724 Houses of correction**

- 364.75 Reformatory plant: grounds, buildings, equipment
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- .76 Reformatory administration
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- .77 Reformatory reform
- .78 Relations to other subjects
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- .8 Discharged convicts and delinquents
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- .9 In special countries
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- 365 Penal institutions Prisoners
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- .1 General questions
- .2 Prison systems
- .3 Kinds of penal institutions
- .4 Prisons for special classes
- 5 Prison plant
- 6 " administration
- .7 " reform
- 8 Relations to other subjects
- .9 In special countries
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- .2 Prison systems
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- .21 General questions
- .22 Penal servitude Gallies
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- 23 Congregate system
- .24 Solitary or separate confinement (Pennsylvania)
system
Dungeon cellular, etc systems
- .25 Silent or Auburn system
Congregate for work, cellular for lodging
- .26 Progressive or intermediate stage system
Irish or Crofton system

- 365.3 **Kinds of penal institutions**
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- .32 **Prisons Penitentiaries**
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- .33 **Jails**
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- .34 **Detention and station houses**
 Police stations or lock-ups See also 364.525 Detention of juvenile offenders
- .35 **Workhouses**
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- .36 **Penal or prison farms Penal colonies**
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- .4 **Prisons for special classes of offenders**
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- .42 **Juvenil offenders**
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- .43 **Women offenders**
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- 44 **Insane and mentally defectiv criminals**
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- .46 **Political prisoners**
- .47 **Debtors**
- .5 **Prison plant: grounds, buildings, equipment**
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- .51 **General questions**
- .52 **Location Site**
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- .53 **Types of buildings**
 Congregate or Auburn type, solitary confinement plan, circular cell block, army barracks, dormitory and cottage types, etc
 See also 365.2 Prison systems

- 365.54 **Special rooms and separate buildings**
 Administrativ units Offices, receiving rooms, classification .
 rooms, etc Housing quarters for staf and for prisoners
 Dining rooms, mes halls Welfare units school, chapel,
 hospital, recreation rooms, social service offices, etc Factories,
 industrial buildings Farm buildings Utility rooms etc
- .55 **Heating and ventilation Air conditioning**
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- .56 **Lighting**
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- .57 **Prison hygiene Sanitation**
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- .58 **Equipment: furnishings, fixtures, etc.**
- .59 **Other topics**
- .6 **Prison administration**
 Control and supervizion of correctional institutions
- .61 **General questions**
- .62 " **supervizory and control agencies**
- .63 **Inspectors**
 Prison organization
 Personnel (training, selection, salary, etc) superintendent,
 stewards, guards, etc , phisicians, etc., office force, clerks
 messengers, etc., kitchen and dining room employes janitorial
 force, etc Management, economic aspects, cost of institutional
 treatment (see also 364.28 Cost of crime) Record keeping,
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- .64 **Prisoners**
- .641 **General questions**
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 treatment
- .642 **Transportation and reception of prisoners**
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- .643 **Discipln**
 Rules and regulations laws prison routine Rights of
 convicts, hours for rizing, meals work, etc , permissible
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- 365.644 Punishments of refractory prisoners
Deprivations, loss of privileges confinement, corporal punishments, treadmill etc See also 365.65 Punitive labor
- .645 Spy system 'Stool pigeon'
- .646 Inmate self-government
- .647 Release and discharge from prison
For aftercare see 364.8 Discharged convicts
- .648 Effects of prisons
See also 364.253 Influence of correctional institutions on crime
- .649 Other topics
- .65 Employment of inmates Convict labor
Prison labor
Organization, foremen Unproductive or punitive labor (see also 365.22 Gallies 365.644 Treadmill) Productive labor, special industries, economic aspects, convict v free labor, interstate commerce in prison products Systems of prison labor lease system chain gangs, contract, etc use on public works and ways Remuneration, arguments for (support of families etc), against Convict-labor laws and legislation See also 331.51 Prison labor in Labor economics
- .66 Welfare work Socializing activities
- .661 General questions
Prison welfare or social workers in general
- .662 Prison educational work Prison schools
Teaching personnel, university extension work (see also 374.4 Correspondence teaching), etc Academic vocational or physical training Prison libraries (see also 027.665 Libraries for prisons) See also 371.93 Education of criminals
- .663 Religious and character training in prison
Chaplains, religious services citizenship training (see also 323.6 Citizenship) See also 377.2 Ethical education
- .664 Health and care of inmates
Diet, clothing, uniforms personal hygiene of inmates, etc. Prison clinics and laboratories medical and hospital service. Care of special patients drug addicts tuberculous, mental defectives, etc See also 613 Hygiene
- .665 Recreation
Recreation directors, sports baseball, tennis, etc, entertainments theatricals, drama, motion pictures music, prison bands, etc
- .7 Prison reform
- .8 Relations to other subjects
May be divided like the whole classification e.g. 365.88 Prisons in literature See also 364.254 Literature and crime
- .9 In special countries
Divided like 930-999, e.g. 365.42 Prisons in England

- 366 Secret societies
 1 Masons 2 Knights of Pythias 3 Odd Fellows 4 Rosicrucians
 See also 377 85 College secret societies
- 367 Social clubs
- 368 Insurance
 See also 334 3 Cooperativ insurance
- 01 Theory Scientific basis of insurance
 Probabilities Statistics Tables value use
- 1 Fire
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- 2 Marine Transportation
- 3 Life
- 31 Rates
- 37 Annuities
 See also 336 35 Public annuities 519 5 Probabilities
- 4 Social insurance Workmen's insurance
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- 41 Accident Liability
- 42 Sickness
- 424 Maternity insurance
- 43 Old age Invalidity
- 44 Involuntary unemployment
- 45 Burial
- 46 Child insurance
- 47 Marriage endowment
- 5 Casualty
 Agricultural

- 368.6 Against breakage or damage
 Glas
- .7 Boiler
- .8 Other risks
- 81 Financial losses
 Depreciat on of values or rights mortgages land titles transferable securities
 cred t insolvency civil responsibility etc
- 82 Burglary Theft
- 86 Reinsurance Counterinsurance
- .91 Government control Commissioners
 93 99 divided geografically like 930-999 e g Insurance in New York
 (including state reports etc) is 368 9747
- 369 Other associations and institutions
- .1 Hereditary and patriotic societies (American)
- .11 General associations
- 111 Regular army and navy union
- 112 Society of veterans of the regular army and navy
- 113 Military and naval order of the United States
- 114 Medal of honor legion
- 115 Military order of foren wars of the United States
- 116 Order of the old gard
 Incorporated 31 Jan 1896 organized 15 Oct, 1896
- 117 Naval order of the United States
- 118 Society of American wars
- 119
- .12 Colonial societies
- 121 Society of colonial wars
- 122 Society of colonial dames of America
 A New York society with chapters in other states known also merely
 as Colonial dames of America
- 123 National society of colonial dames of America
 A federat on of separately incorporated societies in about 40 different
 states
- 124 Society of the Mayflower descendants
- 125 Order of the founders and patriots of America
- 126 Colonial order of the acorn
- 127 " society of Pennsylvania
- 128 " daughters of the 17th century
- 129
- .13 Revolutionary societies
- 131 Society of the Cincinnati
- 132 Society of the daughters of the Cincinnati
- 133 Sons of the American revolution
- 134 Sons of the revolution
- 135 Daughters of the American revolution
- 136 Daughters of the revolution
- 137 Children of the American revolution
- .14
- 141 Society of the wa of 1812
- 142 United States daughters of 1776-1812
- 143 Military society of the war of 1812
- .144 Society of the second war with Great Britain in the state of
 New York

ASSOCIATIONS AND INSTITUTIONS

- 369 145 Aztec club of 1847
 146 National association of veterans of the Mexican war
 147
 148
 149
 15 Civil war societies, Union
 151 G A R (Grand army of the republic)
 152 Military order of the Loyal leg ion
 153 Society of loyal volunteers
 154 Union veterans union
 155 Union prisoners of war association
 156 Society of the army and navy of the Gulf
 157 National association of naval veterans
 158 Society of the army of the Cumberland
 159
 16
 161 Woman s relief corps
 162 Woman s veteran relief union
 163
 164
 165 Sons of union veterans of the civil war
 Formerly called Sons of veterans of the United States of America
 J
 17 Civil war associations, Confederate
 171 Confederate survivors association
 172 Confederate veterans association
 173 United sons of confederate veterans
 174 " confederate veterans
 175 Daughters of the confederacy
 18
 181 Spanish war veterans
 182 Society of the army of Santiago de Cuba
 183 Naval and military order of the Spanish American war
 184
 185
 186 Societies arising from World war of 1914-19
 I American legion
 2 Hereditary and patriotic societies other than American
 21 International
 23 29 By country
 D vided like 930-999

DECIMAL CLASSIFICATION

- 370.7 Study of education Institutions and organizations for training teachers, supervisors, superintendents etc
Means and methods including teachers colleges normal schools institutes etc. For need of training kind and amount see 371.12
- .71 Teachers meetings
Class meetings of teachers of a single institution (faculty meetings) with the institution see table for school and college publications under 378.4-9
- 753 Plan and organization
Frequency time place control cost etc
- 712 Courses of study Programs
- .713-9 In special places
Divided geographically like 930-999
- 72 Teachers institutes
Divided like 370.71 above
- .73 Teachers colleges Normal schools
Institutions primarily for training teachers e.g. state normal schools Teachers college of Columbia university often with attached model practice or demonstration schools in which students teach under supervision of the instructors. For training classes or courses attached to schools not conducted primarily for training teachers etc see 370.75
- .731 Plan and organization Aims and functions Scope
Length and time of terms Support public private
- 732 Courses Programs Credentials
2 Courses and programs
4 Credentials
Diplomas, degrees etc
6 Training for special grades of schools
Use as general number Each of following grades may be divided by 2 and 4 like 7322-4 above
62 Elementary schools
See also 372.207 Training for kindergartners
63 Secondary schools
64 Colleges and universities
65 Professional and technical schools
- .733 Adjuncts practice, model or demonstration schools
- 734-9 Special countries and schools
Divided geographically like 940-999
- 74 Education museums
Including exhibits at international expositions state and county fairs etc
- 75 Training classes
Class here teachers classes or courses attached to schools conducted primarily for another purpose than training teachers. For institutions conducted primarily for training teachers see 370.73
- 753 In secondary schools
* colleges and universities
754 * professional and technical schools
755 Mainly courses in teaching special professional and technical subjects
- 76 Schools of education (also courses) for training supervisors, superintendents administrative officers etc
Harvard graduate school of education
- 766 Training for special grades of schools
Divided like 370.7326
- 77 Special pedagogic methods
Professionalization of subject matter
- 78 Research in education
Educational research organizations. Research on special subject is class with subject

- 370.8 Polygraphy
 81 Collected writings of a single author
 If not limited to a definite topic e.g. Horace Mann Henry Barnard etc
 82 Collected writings of several authors
 9 History Description
 General works covering both ancient and modern history and including history
 of institutions practice, and description of conditions See also 136.791
 The child among uncivilized and semicivilized
 peoples
 901 Ancient
 902 Medieval
 903 Modern
 904 20th century
 92 Educational biography
 Preferably class in 923.7
 93-99 History of education in special countries
 Divided like 930-999
 9401 Medieval Europe
 9402 Modern Europe

371 Teachers Methods Disciplin

Practical methods See 370.1 for theories of education The following divisions concern instruction of all grades

.1 Teaching and administrative personnel

Teachers, professors masters instructors administrative and supervisory officers (principals, superintendents supervisors etc) other than governmental See also 370.7 Training of teachers 371.2 School administration 371.3 Governmental school supervision. For discussions relating specifically to men vs women see 371.18

.101 Duties and responsibilities Mission

Team work Students rights

.102 Personal influence

.103 Relations to parents

Mutual duties of parents and teachers Parent-teacher associations

.104 Relations to community Public status

.105 Social status

11 Qualifications Personality

See also 371.18

.12 Need of training; kind and amount

General discussions of special preparation of teachers and professors for their vocation including experience and growth or improvement while in service. For training of teachers etc defined in degrees courses etc see 370.732

13 Examination Certification Rating

.132 Examination

.133 Certification Registration

Certificates licenses permits

.134 Rating Rating scales Standards

DECIMAL CLASSIFICATION

- 371.23 Terms Semesters Quarters Vacations
Holidays Breaking up
See also Hygiene of vacations and holidays 613 76, 813 77 Closing for
diseases 371 712
- .232 Summer or vacation schools
See also 374.8 Adult summer schools, 378 143 College and university
summer schools
- .234 Terms in 2 or more places
For floating schools see 371 392
- .24 Sessions Hours Recess
For exercise see 371 73 Care of body
- .25 Classes Grades
For general discussions of size of class, ungraded classes, provision for indi-
vidual differences by special classes or groups. For individual instruction see
371 394 For psychology of individual differences see 136.7
Childstudy For grading of schools, see 379 17
- .253 Length of school courses; e. g. 6 year course
See also 378 241 Length of college course
- .26 Marking systems Educational measurements
and tests
Credit system meaning and value of unit semester hour etc For intelli-
gence tests see 151 2
- .27 Examinations: oral, written Cramming
See also 418 9 Language
For competitive examinations see 371 535
- .28 Promotions Demotions Retardation
- .29 Other topics
- .301 Ending student connection
See also 371 36
- 2 Graduation Commencements Diplomas
May be subdivided like 371 31 See also 378 2 College degrees
- 3 Student mortality Dropping out
- .3 Methods of instruction and study
Under the heads below class discussion of pedagogic value of these methods
For methods of teaching specific subjects see those subjects for their educa-
tional value see 375 Curriculum, e. g. teaching of mathematics 510 7 place of
mathematics in curriculum 375 57
- .31 Rote or concert teaching
- .32 Textbooks Recitations
Collateral reading Assignments, Home work Discussion of use of text-
books and desirable qualities of textbooks in general. Textbooks themselves
and discussions of textbooks on special subjects or class with those subjects
Recitation as method in which pupil learns and recites an assigned lesson, for
broad sense as including all types of classroom activity see 371 3

- 371 33 Lectures Oral and visual instruction
- .332 Assemblies Opening exercises Dramatization
As methods of instruction
- 2 Assemblies Opening exercises
Home room activities as methods of instruction. See also 371.891
Student assemblies
- 5 Dramatization
Dramatic method in education See also 371.895 School plays
- 333 Mecanical oral instruction
Radio broadcasting phonograph etc
- 8 Applications and relations
Divided like the whole classification
- 335 Visual instruction Lantern slides Moving pictures
- 1 General questions
- 2 Pictures
- 22 Stereopticon lantern and slides
- 23 Motion pictures
- 3 Charts
- 4 Maps
- 5 Blackboard
- 8 Television
- 34 Developing or inductive method
- 35 Art of questioning Catechetical method Socratic method
- 36 Project method Topical method
- 363 Correlation
- 365 Special days Special weeks
Celebrations Programs Historical days Discovery day Flag day
Memorial day Constitution day Independence day Birthdays
authors and other noted persons Washington's birthday Nature
Arbor day Bird day Other Thanksgiving Christmas Easter etc
- 37 Seminary method Seminar Discussion
- 38 Laboratory method
- 39 Other
- 391 International schools Exchange of pupils
See also 371.1425 Exchange of teachers 375.12 Exchange of professors
- 392 Floating schools or colleges
Combining travel and shipboard instruction
- .393 Trips Excursions Visits
- 394 Individual instruction
By regular teacher or tutor at home or at school. Batavia system.
Dalton plan Winnetka plan Pueblo plan etc See also 373.1 Private instruction
- 395 Small classes
See also 371.47 Quincy system

- 371 63 **Furnishing and decoration**
 .631 **Furniture**
 Blackboards desks chairs benches For globes and maps see 371 6792
 .632 **Musical instruments**
 .633 **Floors: bare, covered**
 See also 721 6 Architectural construction
 022 96 Library buildings
 645 1 House decoration
 .634 **Walls: tints, covering**
 .635 **Decoration**
 See also 729 Architectural decoration
 .636 **Pictures Frescos Glas**
 .637 **Sculpture**
 .638 **Plants**
 .639 **Other decoration**
 64 **Libraries**
 Character and functions For relation to public library see 021.3 for relation to other school rooms and buildings see 371 622 See also 027 7 College libraries 027 82 School libraries
 .641 **Relations of library to faculty and students**
 .642 **School traveling libraries**
 .643 **School reading lists**
 See also 028 5 Reading of young
 .644
 .645 **Elementary school libraries**
 .646 **Secondary school libraries**
 .647 **College and university libraries**
 Departmental and seminar libraries
 .648 **Professional and technical school libraries**
 In 371 645 648 may be class matter pertaining to desirability and scope of such libraries tho it is better in 027 7 and 027 82 with reports and other matter pertaining to their management
 65 **Museums character and functions**
 Divided if wished like 020-999 e.g. 371 655 Science museums 371 659 Art museums Limited to character and functions of museums attached to teaching institutions See also under museum economy 069 015-016 See also 708 Art museums, and form division 074 under special subjects
 .66 **Scientific apparatus Laboratory equipment and supplies**
 Divided like 500 e.g. 371 662 Astronomical observatory
 67 **Other apparatus, equipment and supplies**
 Divided if wished like 020-999 e.g. 371 6791 Globes maps etc

- 371.7 School hygiene Physical welfare of students**
71 Health and safety of students Overstudy
Fatigue
711 Sanitary conditions and inspection Health crusades
Board of health For sanitary engineer's side see 371.626
.712 Medical inspection Clinics School nurse
*For personal conditions affecting health and intellectual progress
 e.g. cleanliness contagious diseases nervous disorders defect v
 eyes ears or teeth Closing schools on account of epidemic or
 contagious diseases*
.713 Posture
See also 371.631 Furniture (ill-designed desks and seats)
714 Fire preventive and protective measures Fire drills
*For fireproof schoolrooms and buildings see 371.6178 for fire protection
 apparatus see 371.629 See also 614.84 Fires prevention extinction
 apparatus etc*
716 School meals
*Discuss on Administrative problems space cost whether wholly or
 partly free etc For management of lunch room suitable food etc
 see 642.58*
.718 Open air schools
72 Care of eyes Effect of study
73 Care of body Gymnastics Calisthenics
For systems of gymnastics or physical training and books of exercises see 613.71
.731 Educational influence of physical training
.732 Gymnastics Calisthenics
2 In elementary schools
3 " secondary schools
4 " colleges
5 " special schools
6 " girls schools
7 " boys "
8 " evening schools
733 Military drill
For military organization of school see 371.43
734 Fencing Boxing Wrestling
735 Swimming Bathing
736 Riding
.737 Walking School promenades
74 Recreations Games etc Athletics Dis-
versions
*See also 371.61 School playgrounds 613.74 Hygiene of play 796
 Outdoor sports*
75 Championship games Boat races Inter-
school athletics
For other relations see Games in Relative index following Tables

372 Elementary education

Methods Curriculum Primary schools Dame schools. Infant schools (under 7 years) Preschool education For Day nurseries crèches see 362 71, for Minding schools see 362 75

.01 Pedagogics and didactics of elementary schools

.1 Childstudy

May be used like 136 7

by those who insist on

having childstudy with education

.2 Types of elementary schools Kindergarten

Preschool education infant schools Individual schools may be class w th their respectiv types dividing after op like 930-999 or groupd together under 372 9 See also 371 44 Pestalozzian for theory and erly history Put Fröbel's work and development of his system here

.201 Theory Principles

.202

.203

.204 Essays

.205 Periodicals

.206 Societies

.207 Training of kindergartners

.208

.209 History

Divided if wisht like 930-999

.21 Methods

.211 Gifts Occupations

.212 Gifts

.213 Occupations

.214 Stories

.215 Songs Games

.2 Songs

.3 Games

.22 Influence of kindergarten

.23 Relation to other schools

.24 Other types of elementary schools

.241 Primary schools

Dame schools ABC schools petty schools

.2 Nursery schools

.242 Grammar or intermediate schools

Common school education higher elementary schools

.3 Sensory training Observing powers

Object teaching science

.31 Methods

Montessori

.35 Nature study

Divided like 500-599 e g B rds 372 35989

.36 Gardening

372.4 Reading Alfabet Fonics and word methods Spelling

See also 428.6 Elementary readers

.45 Simultaneous teaching of reading, writing and spelling

.5 Elementary writing and manual work

See also 741 Freehand drawing

.51 Writing

First efforts, imitating printed roman letters

.52 Drawing Design

See also 741 Drawing

.53 Clay modeling

.54 Sewing etc

.55 Elementary basketry, weaving and braiding

.6 Elementary grammar Language lessons

See also 400 Philology, subdivision 8 under each language

.61 Mother tongue National language

.65 Second language

.7 Elementary arithmetic

Including mental arithmetic See also 511 For Abacus see 511.2

.8 Other studies

Divided if wisht like 010-999 e.g. 372.82 Religion

.891 Elementary geografy

See also 910.7 Elementary textbooks may be put with their subjects but a primer of geografy is more useful to a student of elementary schools and methods than to one interested in Geografy Description and Travel Text books except primary go with their subjects

.9 Special countries and schools: history, reports, catalogs etc

Divided like 930-999 e.g. 372.942 English elementary schools Put here elementary schools whether public endowd or private

373 Secondary Preparatory

Academic, highschoools, junior highschoools Clas here discussions of general theories methods curriculums etc pertaining specifically to secondary education regardless of source of support Clas here also all private or endowd secondary schools for boys or both sexes, all public (taxsupported) secondary schools for boys or both sexes may be clas here or in 379.4-9, all elementary

see 371

.I Private instruction: tutor, governess, coach

.II Relativ advantages of instruction at home and in school

See also 371.394 Individual instruction

DECIMAL CLASSIFICATION

373.2 Types of secondary schools

Individual schools may be classed with their respective types, dividing after as like 930-999 or in 373 4-9 or 379 4-9

- | | | |
|------|--------------------|------------------|
| .22 | Day schools | Boarding schools |
| .222 | Day schools | |
| .223 | Boarding schools | |
| .23 | As to organization | |
| .232 | 4-year highschools | |
| .234 | 6- " " | |
| .236 | Junior " | |
| .238 | Senior " | |
| .24 | As to curriculum | |
| .241 | Academic | |
| .242 | Classical | |

Latin etc highschools

- .243-.249 Other types by subject**

May be divided like 300-900 e.g.

- 373 24355 Military see also 371 43
245 Scientific or scientific and technical combined
246 Industrial vocational, see also 371 43
5 Commercial

- 3-9 Special countries and schools: history, reports, catalogs etc

Divided like 630-900, e. g. 373.42 Higher English schools: Eton, Harrow etc.

374 Adult education

Home education	Self education and culture	Cultural personal aspect of education
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Subdivided by o with form numbers if wisht, e.g. 374.05 magazines pertaining to this work 374.06 Conferences conventions institutes general meetings

The term Adult education covers the broad field of self education thru private reading study clubs and reading circles summer vacation evening and correspondence schools lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions

For relations of this work to libraries the natural centers for such activities, see 031.2. See also 378.13 University extension.

With or without personal guidance

- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Advantages to be derived from reading Study alone with or without aid of reading lists syllabuses etc Development of effective reading

or reading lists, synopses etc. development of library catalogues
 and other aids to study before with
 to They may,
 I like the class
 library economy

374 1003

Sec 918 for preparation of guides policy methods etc

For vocational guidance see 371.425

- 374.2 Associated study Clubs**
- 21 Study clubs**
 Class here travel clubs which study about places without traveling to see them See also 374.25
- 22 Reading circles Book and periodical clubs**
- 23 Lyceums Literary clubs**
- 24 Debating societies Oratoric clubs**
- 245 Interschool and intercollegiate debates**
 For interschool literary contests see 371.535
- 25 Traveling clubs Educational value of travel**
 Clubs which travel for education See also 371.392 371.393 374.71
- 28 Community centers**
 Whole community as a club of varied interests Put here discussion of use of school buildings for various community purposes
- .3**
With personal guidance
 Either alone or in groups clubs or classes
- .4 Correspondence teaching Manuscript aids**
 Class here works on value history and methods of correspondence teaching also printed general correspondence courses Courses on special subjects are better classed with the subjects
- 43 Societies for encouraging home study**
- 44-49 Correspondence schools**
 General schools divided like 940-999 Special schools are better classed with the subject with only a reference here e.g. correspondence schools of agriculture 630.714
- .5 Lectures**
 Discussion of lectures as a method of education either as single lectures or as a series of lectures on different subjects lists of lectures courses on the same subject unsupported by any other of the 7 factors of a complete extension course
 1 Lectures 3 Class 5 Guided reading 7 Examination
 2 Syllabus 4 Papers 6 Club
 Lectures themselves whether issued separately or in collections are classed with subject treated
- .6 Extension courses Lecture study**
- 62 Lecture study**
 3 or more lectures on the same subject with 2 or more of the 7 factors
- 64 Extension courses**
 5 or more lectures on the same subject with 4 or more of the 7 factors
 For extension courses taken for credit under college or university auspices see 378.13
- 8 Continuation schools**
 Summer winter vacation night (adult) etc German auxiliary schools
 Divided like 930-999 For public (taxsupported) evening or night schools see also 379.19
- .9 Central organizations State departments
 Institutes**
 For encouragement of self education e.g. N.Y. state library extension division Brooklyn institute Cooper institute Chautauqua etc. May be divided like 930-999

375 Curriculum Course of study

Clas here general discussions of principles and methods of curriculum construction. Curriculums for special kinds of schools or on special subjects ar better clast with those schools or subjects e.g. 373 High school curriculum, 375 9 History course

- 001 Order of studies
- 002 Single course Mandatory studies Required courses
- 003 Parallel courses
- 004 Optional courses Electiv sistem
- 005 Balanst courses Group sistem

Special topics

- 006 Overcrowding curriculum Coordination of studies
 - Economy in curriculum Minimum essentials
- 007 Courses for different classes of society
 - Liberal education Relativ value of studies
 - 1 For bredwinning vs culture
 - 2 Failure of course to develop efficiency
- 008 Courses for schools of special kinds
 - Clas here general discussions only. Clas material relating to special schools or special kinds of schools under their respectiv clas numbers
- 009 Courses for institutions in special countries
 - Divided like 930-999 See also 379 4-9

.01-.9 Subjects of study

Divided like the classification 010-999 e.g. 375 5 Place of science in the curriculum, 375 84 French literature in the curriculum 375 88 Classics in the curriculum

Methods of teaching individual subjects also textbooks, may be kept with educational literature by adding letters to 375 as follows: A general B educational value of specific subjects C place in curriculum D methods of teaching specific subjects E textbooks

- e.g. 375 32 B Educational value of political science
- 375 32 C Place of political science in the curriculum

376 Education of women

See also 396 4

- .1 Physical capacity of women
- .2 Mental capacity of women
 - See also 136 1 Mental characteristics as influenst by sex
- .3 Home or domestic instruction
 - By tutor or governess See also 374
- .4 Fashionable education 'Finishing' schools
 - Discussion For prospectuses catalogs etc see 376 9
- .5 Convent education
 - Discussion For prospectuses catalogs etc see 376 9
- .6 Higher education of women
 - Secondary and college
- .63 Secondary: preparatory schools for girls
 - Alt between elementary and college Discussion Girls tax-supported high-schools may be clast in 376 9 or 379 4-9 for private preparatory schools see 376 9
- .64 Influence of college education on women
 - Duties of college women as such
- .66 Associations of college women
 - Association of collegiate alumnae Alumnae of a single college with that college

- 376.7 Coeducation Segregation Separation**
 Discuss on of collegiate education of women in separate institutions or those for both sexes whether in the same or separate classes. See 378 for coeducational institutions 376.8 for separately organized women's colleges either affiliated like Barnard and Radcliffe or independent like Vassar Smith etc. Class here by attraction general discussion of coeducation of sexes in college and secondary school
- .8 Colleges for women**
 Divided like 930-990 Degree-conferring colleges go here Arrange material of each college by Table for school and college publications following 378.99 All other schools for women go in 376.9 or 379.4.9
- .9 Special countries and schools: history, reports, catalogs etc**
 Divided like 930-990 e.g. 376.9.13 Education of women in Germany
- 377 Religious, ethical and secular education**
 Interrelations of these types of education Miscellaneous educational activities of religious and charitable organizations regardless of place time or subject except religious instruction For inculcation as well as actual teaching of definite ethical or religious doctrines see 375 e.g. instruction in duties of citizenship patriotism 375.17.21 course in Christian evidences 375.239 Class catalogs history etc of a denominational school regardless of religious affiliation in 372.373.376.378 according to grade or type of school but class here books dealing in general with schools of a certain denomination or order e.g. educational system of the Jesuits 377.35 For training for religious work as a profession see 207 for parish educational work under direction of pastor see 257 for religious instruction by Y M C A see 267.352 Religious department 267.357.2 Religious work in Boys department for religious instruction by Y W C A see 267.552 Religious department 267.557.2 Religious work in Girls department for Sunday and week day schools for religious instruction see 268
- .1 Religious instruction Bible in public schools**
 Discussion of sectarian instruction or influence in public schools or in non-sectarian private schools public school teachers in religious garb conscience clause of English elementary school code weekday religious education. See also note under 377
- .2 Ethical education**
 Ethical training without religious teaching as advocated by ethical societies. See also 270.7 Study of ethics 375.17 Place of ethics in curriculum
- .3 Monastic or abbey schools**
 Écoles congréganistes Divided like 271. See also 271 Religious orders 376.5 Convent education of girls
- .4 Diocesan schools Cathedral schools**
 Domschulen stiftschulen
- .5 Parochial schools**
 See also 257 Parish educational work
- .6 Missionary schools**
 Establishment and conduct of schools as part of missions work. See also 266 Missions
- .7 Charity schools**
 Mainly for elementary education. See also charitable institutions 362.76

- 377.8 Christian church and education**
 Divided like 280 e.g. 377.82 Relation of Roman catholic church to education Discussion of denominational schools or educational associations, e.g. 377.83 Association of Catholic colleges of United States
 See also 261.5 Church and intellectual development
- .9 Nonchristian religions and education**
 Divided like 290 e.g. 377.97 Relation of Mohammedanism to education
- 378 Colleges and universities**
 With power to confer degrees also junior colleges For men only or for both sexes
 For women's colleges see 376.8
 Methods and curriculum For full table of form divisions see Table 2 after Relativ index
- .01 Definition of college and university Aim**
 Advantages and influence of college training, e.g. on business capacity
- .014 College terminology 'Slang'**
 Including also student slang See also 437 437 etc
- .05 Academic periodicals**
 Periodicals devoted to college and university interests Those issued by colleges schools etc are scattered either by subject or under college numbers
- .06 General college associations**
 Association of New England colleges See also 379.6
- .068 Associated alumni University clubs**
 For alumni associations of any one college see T under college number
- .069 Duties of college men as such**
 Obligations imposed by their greater knowledge
- .1 Organization Government Location Scope, field**
 Classes colleges graduate departments etc
- .11 Administrativ officers**
 President deans etc
- .113 Disciplinary officers Judicial corps University court**
- .12 Teaching staf Faculty**
 Exchange of professors For qualifications see 371.11
- .121 Freedom of teaching**
 See also political science, 323.444
- .13 University extension**
 Conducted by universities See also 374
- .14 College year Summer or vacation instruction**
 All the year session
- .142 Summer or vacation instruction**
- 15 Size Location Grade**
- .152 Large vs small**
- .153 City vs country colleges**
- .154 Advanst or senior colleges Junior colleges**
- 2 Advanst or senior colleges**
- 3 Junior colleges**
- .155 Departments**
- 2 Undergraduate**
- 3 Graduate**

- 378.2 Academic degrees and costume College colors
 See also 614.21 Medical degrees
- Degrees
- .21 Degree conferring body and powers
 College university or state See also 614.21 State regulation of medical education
- .22 Graded degrees
 Pas honor cum laude magna cum laude etc
- .23 Degrees in course
 Advant degrees conferrd at specified periods on graduates in good standing without evidence of advant attainments
- .24 Degrees for completion of courses
 With or without examination
- .241 Time and residence required Length of college course
- .242 Subjects allowable for liberal degree
 Whether teknical courses should be credited toward liberal degrees theses
- .243 Differentiation of degrees: B A, B S, B L, etc
- .244 Degrees on examination
 With or without residence
- .25 Honorary degrees
- .26 Degrees by purchase or forgery
 Bogus degrees
- Insignia
- .27 Seal Coat of arms Motto
- .28 Colors institution and clas College flags
- .29 Academic gowns and hoods
- .3 Endowment of reserch Fellowships Scholarships Student aid
- .31 Higher educational foundations and endowments
 See also 371.222 Student endowments in general
- .32 Endowment of reserch
 Carneg e nst tut on Rockefeller institute Incent vs to reserch Prizes Opportun t es for reserch Nobel prizes Compet t ions
- .33 Fellowships
- .34 Scholarships
 Rhodes scholarships Travel ng scholarships
- .35
- .36 Student income and expenses
- .362 Loan funds Student aid societies
- .364 College employment bureaus Faculty committees
 Other organ zations for securing work for students
- .365 Student ernings
 Working way thru college Ways of erning
- .368 Student expenses: extravagance, economy

378.4-.98 Special countries and colleges: history, reports, catalogs etc.

For women's colleges see 376.8

Divided like 940-998, e.g. 378.42 English universities, 378.741 Maine colleges. The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table placing these letters *after* the letter (or letter and figures) used to designate the college e.g. a history of Harvard college would be marked 378.744 HE, and a second history would be numbered 378.744 HE1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers.

If preferred, colleges and universities may be arranged alphabetically under continent number, instead of being classed first by country or state, e.g. European universities under 378.4 in alphabetic order regardless of country, United States colleges and universities all in one alphabet under 378.73.

.99 Professional, technical and other special schools Professional education

Best kept with subject, but may be compactly grouped here. Divided like the classification e.g. 378.992 Theologic schools 378.9934 Law schools 378.9961 Medical schools.

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

A	Charter and statutes			
B	Trustees	Regents	Resolutions, reports etc	
C	Administration	President, chancellor	Reports etc	
D	Finances	Treasurer's reports		
E	History	Foundation	growth etc	
F	Biography	Necrology		
G	General catalogs	Triennials etc		
H	Annual catalogs	Attendance, registers etc		
I	Handbooks	Circulars of information		
J	Bulletins	Official periodicals		
K	Commencements, inaugurals etc	Baccalaureate and other addresses		
L	Programs	Tickets	Memorabilia	
M	Faculty (as a body)	Publications	Regulations	Certificates for admission
N	Lectures	Class manuals	Examination questions	
O	Student theses	Orations, essays etc		
P	Student catalogs	Society annuals, etc		
Q	Student periodicals			
R	Student societies, including periodicals			
S	Student miscellany	Songs	Class day, etc	
T	Alumni	Societies	committees etc	
U	Classes	Histories	records etc	
V	Pictures	Class albums		
W	Buildings and grounds	Descriptions, maps etc		
Z	Schools	divinity, law, medical etc		

Better class with subject e.g. Divinity schools 207

379 Public schools Relation of state to education

- .I Public school system
- .II School funds School finance Cost to public
- .I2 National and state aid to education
- .I2I Public aid to schools
 - Exemption vs taxation
 - 2 Public
 - 3 Private
 - 4 Sectarian
 - 5 Nonsectarian
- .I23 Land grants
 - See also 336 14 Public finance
- .I24 Subsidies
- .I3 Local support
 - Taxation Bonds, Endowment Nonresident tuition See also 336 28
 - Tax on
- I4 School laws and regulations Divided like 930-990
 - School age Working permits
- I5 School supervision and control: national, state and local Centralization
 - Standardization of schools. For school administrative officers see 371 147
- .I5I National
- .I52 State: department, inspectors etc
- .I53 Local: superintendent, school committee, board
 - Supplies free textbooks, etc For school meals see 371 716 For school superintendents principals supervisors etc, as administrative officers employed by local authorities see 371 1472
 - 2 County
 - County school superintendent etc
 - 3 Township
 - 4 City District Ward
 - Local school board etc
- .I54 Individual: parents and others
- .I56 State textbooks

- 379 16 Public colleges and universities: national, state and local
 Only discussion here for individual colleges see 378 4-9
- .17 Secondary and elementary schools
 Discussion
- .171 Highschools Academies
 6-year highschools junior highschools, etc. Class individual schools in 379 4-9 or if preferd, in 373 Secondary schools for boys or both sexes, 376 9 Girls secondary schools
- .172 Grammar or elementary schools
 Class individual schools in 372, see note under 372 2
- .173 Rural schools
 Village schools Class individual schools according to grade or type in 372 373 3 6 9 or 379 4 9
- .175 Central plan Consolidated schools Conveying pupils
 2 Conveying pupils
- .18 Primary schools Kindergartens
 Questions of public maintenance Class individual schools in 372, see note under 372 2
- .19 Part time schools Evening schools
 See also 374 8
- .2 Illiteracy Instruction of illiterates
- .21 Illiteracy and crime Education and crime
 Criminal illiterates
- .22 Illiteracy and pauperism Indigent illiterates
 See also 339 1 Pauperism 362 51 Poorhouses
- .23 Compulsory education
 See also 371 52 Truancy
- .24
- .3 Public vs private and endowd schools
- .4-9 Special countries, sections, cities etc
 Divided like 940-999 e.g. 379 73 Reports of U S commissioner of education 379 744 Education in Massachusetts, 379 7471 in New York city. Keep state departments separate from city and other local systems by numbering state reports A1 A8 using A9 followed by author's initial (lower case) for history of schools of any state e.g. Fitch's *New York public schools* 379 747 A9d

380 Commerce Communication

Public utilities Technical side of these questions goes mostly in 650 Useful arts.
Here belong discussions of social and political relations

- .1 Theory
 - Subdivisions of 380 1 may be used after or under 381-389 and any of their subdivisions
- .11 Supply and demand
- .12 Trade channels Commercial expansion Markets
- .122 Market surveys and analysis
 - See also 658 83 Business methods
- .123 Commercial forecasts
- .124 Trade cycles Commercial fluctuations
 - Commercial crises Panics Depressions
 - See also 332 Financial crises 334 55 Production crises
- .125 Cooperativ marketing
 - See also 334 6 Cooperativ productiv associations 658 83 Business methods
- .126 Commercial arbitration
- .13 Value of commerce and means of communication
- .14 Terminology Nomenclature
- .16 Ownership and control of business and public utilities
 - For control of a specific utility see its own number e g 383 Postal servis, 385 Railroads
- 162 By government
 - 2 National 3 State or provincial 4 Municipal
- .163 By private enterprize
- .164 Joint ownership and control
- .165 Of business
 - 2 By government
 - 22 National 23 State or provincial 24 Municipal
 - 3 By private enterprize
 - 4 Joint ownership and control
- .166 Of public utilities
 - 2 By government
 - 22 National 23 State or provincial 24 Municipal
 - 3 By private enterprize
 - 4 Joint ownership and control
- .167 Ownership
 - Divided like 380 162-166
- .168 Control
 - 1 General questions
 - Divided like 380 162-166
 - 2 Regulation
 - Divided like 380 162-166
 - 22 By government
 - General questions
 - 2 Inspection 3 Franchises 4 Licenses
 - 3 Operation
 - Divided like 380 162-166
- .18 Commercial methods
 - See also 658 Business methods

- 381 Domestic trade
- 382 Foren trade
Including trade between mother country and colony
- 2 Official representatives Consulates Consuls
Consular reports
- 383 Postal servis
See also 353 4 U S administration
- .1 Transport by mail
Letters parcel post etc
- .2 Postage stamps Postage permits
Precancelled stamps
- .21 International stamps
- .22 Philately Stamp collections
- .3 Banking by mail
Money orders postal orders See also 332 22 Postal savings banks
- .4 Organization of postal servis
Government post private post postal union
- 49 In special countries
Divided like 930-999
- 384 Telegraf Cable Telephone
See also 621 38 and 654
- .1 Telegraf
- .4 Cable
- .5 Radio Wireless
Telegraf and telephone
- .6 Telephone
- 385 Railroads
Government ownership or control Interstate commerce commission See also
388 4 Street railways 625 Railway engineering 656 Railroadng
- .1 General questions
- 12 Relations to other means of transport
- 122 Railways vs highways
- 123 " " street railways
- 124 " " interurban lines
- 126 " " waterways
- 2 Inland
- 3 River 5 Lake
- 4 Canal 6 Ferry
- 7 Ocean
- .127 Railways vs air transport

385	13	Financial questions
.132		Rate schedules Tariffs
1		General questions
		Principles of rate making differential rates zone rates, etc may be divided like 385 1323
2		Passenger and baggage rates Fares
22		According to number and frequency of trips
		Commutation or suburban rates etc
23		According to distance and destination
232		General and international rates
233		Local rates
234		Transit "
235		Thru "
236		Round trip rates
2		Going and returning by same route
3		" " " " different routes Circular trips
24		According to time
242		Day rates
243		Night rates
244		Holiday rates Vacation rates
		Excursion rates etc
245		Seasonal rates
		1 Spring 2 Summer 3 Autumn 4 Winter
25		According to speed and form of transport
252		According to speed
253		Rates on slow trains
254		" " fast "
		Rates on extra fare trains
255		According to classes or form of transport
		1st 2d, 3d etc de luxe tourist etc
256		Sleeping and parlor car rates
		Pullman fares etc
26		For special classes of persons
		Reduced fares passes free transport
261		Officials
		Government railway etc See also 328 347 Legislative railway passes
262		Military
263		Laborers and railway employees
		See also 331 991 Transport of workers
264		Students, clergy, teachers etc
265		Children families
266		Emigrants colonists, homeseekers
267		Special races
		Colored persons etc
268		Persons under commitment to public institutions
		Prisoners convicts insane etc
269		Other
		Divided like main classification
27		For groups of persons
		Convention rates etc
28		Baggage rates
		Excess baggage rates
29		Accessory fees Special charges

DECIMAL CLASSIFICATION

385 1323	Express rates
32	According to number and frequency of shipments
33	" " distance and destination
	Divided like 385 13223
332	General and international rates
	2 Export rates 3 Import rates
34	According to time
	Divided like 385 13224
35	According to speed and form of transport
352	According to speed
353	Rates for slow transport
	Rates on delayed shipments
354	Rates for rapid transport
	Rates on expedited shipments
355	Rates for special forms of transport
	Rates for limited responsibility rates for limitations on tonnage conditions, group rates etc
36	For special classes of shippers or consignees
	Reduced rates rate exemptions Divided like 385 13226
38	For special classes of goods
	Express classification
382	Class rates
383	Commodity rates
384	Rates on special types of goods
	Dangerous perishable etc
388	Rates on special articles
	Divided like main classification
39	Accessory fees Special charges
391	Terminal charges
	Charges for loading and unloading collection and delivery, switching carting trucking lightening storage etc
392	Insurance and registration fees, etc
393	Rental and charges for private equipment
	Private stations, branch lines cars etc
394	Charges for special connections
	Charges for special land and water connections, for connections with industrial railways tap lines, etc
4	Freight rates
	Divided like 385 13223
.133	Subsidies
	See also 336 14 Land grants
134	Tolls
.135	Taxation

- 385.2 Services**
 For railway mail service see 383
- .22 Passenger**
 Class here works covering passenger and express service combined
- 23 Express**
- 24 Freight**
- 242 Regular line service**
 Freight lines run on regular routes and schedules
- 243 Tramp or chartered service**
 Without regular routes or schedules
- 244 Privately operated industrial carriers**
 Operated by industrial or mercantile concerns primarily to carry their own freight only occasionally carrying freight for other parties
- 25 Combination services**
 For combined passenger and express service see 385.22
- 252 Passenger and freight**
- 253 Freight and express**
- .3 Stations and terminals**
 For station buildings see 625.18 Road accessories, 725.3 Architecture, for technical and business aspects see 656 Transport
- 32 Small, country stations**
- 33 Large, city** "
- 34 Union and junction stations**
- 35 Thru terminals**
- 36 Loop** "
- 37 Stub** "
- .4 Standard and heavy railways**
 See also 625 Railway engineering
- .5 Light and industrial railways**
 See also 625 Railway engineering
- .6 Specially constructed railways**
 See also 625.3-5 Railway engineering
- 62 Inclined and mountain railways**
- 622 Funicular railways**
- 623 Rack railways**
- 624 Friction railways**
- 63 Elevated railways**
- 64 Subways**
- 65 Monorailways**
- 66 Cable roads**

386 Waterways

See also 626 Canal engineering 627 River and harbor engineering 656 Transport under useful arts

09 In special countries

Divided like 930-999

.1 General questions

Divided like 385 1 using 386 125 for waterways vs railways

.2 Inland navigation

209 In special countries

Divided like 930-999

21 General questions

Divided like 385 1 using 386 2125 for inland navigation vs railways

22 Ships

Divided like 623 82 For general works on ships see 387 2 see also 623 8 Shipbuilding

24 Services

Divided like 385 2

3 River navigation

309 In special countries

Divided like 930-999

31 General questions

Divided like 385 1 using 386 3125 for river navigation vs railways

34 Canalized rivers

4 Canals

41 General questions

Divided like 385 1 using 386 4125 for canals vs railways canals vs transport of ships by rail

42 Interoceanic canals

Class here only canals connecting 1 ocean with another canals connecting various parts of a given ocean are classed as noninteroceanic canals 386 46-49 (see notes under 386 46 and 386 4609)

43 Suez canal

44 American interoceanic canals Isthmian canals

441 General questions 446 Honduras

442 Atrato 447 Tehuantepec

443 Darien 448 Other South American routes

444 Panama 449 " North " "

445 Nicaragua

46 Inland or noninteroceanic canals

Includes canals connecting various parts of a given ocean

4609 In special countries

Divided like 930-999 individual canals may be classed here or by type under 386 4709 and 386 4809

47 Ship canals

See notes under 386 46 and 386 4609 for interoceanic canals see 386 42 44

48 Barge and small boat canals

Canals for avoiding rapids, cataracts etc See notes under 386 46 and 386 4609

49 Other groupings

- 386 5 Lake navigation
 509 In special countries
 D vided like 930-999
 51 General questions
 D vided like 385 1 using 386 5125 for lake navigation vs railways
 6 Ferries
 609 In special countries
 D vided like 930-999
 61 General questions
 D vided like 385 1 using 386 6125 for ferries vs railways
 62 Ferries for foot passengers and small vehicles
 63 Freight ferries
 64 Train "
 8 Inland ports and harbors
 For works on ocean ports and those covering both ocean and inland ports see 387 1 D vided like 387 1
 809 In special countries
 D vided like 930-999
- 387 Ocean and air transport
History of shipping See also 656 Transport
 I Ocean ports
 Class here works covering both ocean and inland ports See also 386 8 Inland ports 627 Harbor engineering
 11 General questions
 D vided like 385 1
 12 Ports according to location or type of harbor
 12 Natural bay ports
 123 River mouth estuary tidal river ports
 124 Combination river and natural bay ports
 125 Roadsted breakwater ports
 13 Entrepôt vs transit ports
 132 Entrepôt ports Reexport ports
 133 Free ports Free zones Foren trade zones
 134 Transit ports
 14 Overside vs quay ports
 142 Overside ports
 143 Quay ports
 .2 Ships
 See also 623 8 Shipbuilding D vided like 623 82

- 387 5 Maritime transport**
 Merchant marine maritime lines organization and services. For technical and business aspects see 656 Transport
- 51 General questions**
 Divided like 385.1 using 387 5125 for ocean transport vs railways
- 52 Trade routes**
 International trade routes
- 522 Main trunk lines**
- 1 North Atlantic route**
 Connects Canada and northeast United States with English Channel and north and west Europe
 - 2 Mediterranean and Suez route**
 Connects North America and west and south Europe with north and east Africa Orient and Australasia. See also 386 43 Suez canal
 - 3 South African route**
 Connects North America and Europe with west south and southeast Africa Orient and Australasia
 - 4 South American circuit**
 Connects east and west shores of north Atlantic with eastern South America and Pacific coast of North and South America also with Orient and Australasia
 - 5 Gulf of Mexico and Caribbean Sea route**
 Southern extension of North Atlantic trunk route connecting with southeast United States West Indies Mexico and northeastern South America
 - 6 Panama route**
 Mainly extension of Caribbean route connecting Atlantic and Pacific coast countries. See also 386 444 Panama canal
 - 7 North Pacific route**
 Connects North America with Asia
 - 8 North American and Australasian route**
 Connects western North America with New Zealand and Australasia
 - 9 Other trunk lines**
- 523 Triangular and auxiliary routes**
 Irregular and tramp routes branches and connections between main trunk lines
- 524 Coastwise trade Cabotage**
 Trade between ports of a given nation
- 54 Services**
 For ocean mail services see 383 Divided like 383 2
- .7 Air transport**
 See also 629 13 Aeronautics

388 Local transit: city and interurban Highways

See also engineering 625

.1 Highways Roads Bridges

.3 Land transportation Vehicles

Carriages, coaches, carts etc Stages (horse or motor)

.4 Street railways Quick transport in large towns

For technical questions see 625 6

389 Weights and measures Metrology

.1 Metric system

.6 Standardization

390 Customs Costumes Folklore

These heads are for discussions by topic. Customs etc. of any special country go in 913-919. Books on a special topic in a special country go here, as the grouping by topics is the more important. e.g. Marriage in Japan is 392.5, but Japanese customs 915.2. For customs of primitive man see 571.

391 Costume and care of person

See also 646 Clothing, 613.4 Hygiene

- .1 Costumes of men
- .2 " " women
- .3 " " children
- .4 Extremities Accessories
 - Hats, gloves, stockings, shoes, sandals, muffs, fans, canes, parasols, etc.
- .5 Hairdressing Barbers See also 646.7 Toilet
- .6 Care of person Bathing Toilet
- .7 Ornaments and jewelry

392 Birth, home, and sex customs

- .1 Birth customs: christening, circumcision
- .2 Sacrifice and exposure See also ethics, 173.4 Infantile
- .3 Family and home relations
- .4 Betrothal
- .5 Marriage Weddings
- .6 Sex relations Concubinage

393 Treatment of the dead See also 614.6 Public health

- .1 Earth burial See also 718 Cemeteries
- .2 Cremation
- .3 Embalming, mummies
- .4 Exposure
- .5 Special funeral customs: wake, suttee

394 Public and social customs

- .1 Eating, banquets
- .2 Shows and diversions
- .25 Carnivals
- .26 Holidays

Including days which, tho' not legal holidays, are similarly observed. While separate days may be classed under 394.262, 264 and 269 it is recommended that these numbers be used only for general works and that separate days be kept in a single group under 394.268. See also under folklore 398.33 Fêtes education 371.365 Special days
- .262 By season
 - 2 Spring 3 Summer 4 Autumn 5 Winter
- .264 By kind
 - 2 Religious 5 Scientific 8 Literary
 - 3 Economic Social 7 Art 9 Patriotic
- .268 Special days Alphabetized by name of day
- .269 By country Divided like 930-999

- 394 3 Games Dances, etc.
 .4 Official ceremonies Ceremonious observances
 43 Enthronement of sovereigns
 Consecration coronation taking oath
 44 Joyful entries Receptions
 Durbars levees, etc
 45 Triumphs
 5 Processions Pageants
 .6 Fairs Kermess
 7 Chivalry Tournaments Justs
 .8 Dueling Suicide

For other relations see Dueling in Relative index following Tables

395 Etiquet

Codes of social procedure and behavior For social ethics see 177

396 Woman's position and treatment

For costumes see 391 2 biography 920 7

If a special library about women is wisht 396 is the best place for it Suffrage education and employment can then be put here with references from 394 3 396 331 4 etc but it would be unwise to bring everything about women here e g to remove 618 Diseases of women from the rest of medicine Books on woman in general go in 396

.1 Emancipation

.2 Legal status, property, rights, etc

.3 Political status

See 324 3 Suffrage 399 83 Woman suffrage party

.4 Education

See also 376 Education of women

.5 Employment

See 331 4 Labor of women 371 18 Teachers 023 56 Librarians 069 6318 Museum employees

Divided like the general classification e g woman as scientist 396 55 woman as exchange 396 56 woman as painter 396 575 woman as author 396 58 etc

.6 Woman in home

7 Delineation of woman in art

8 Delineation of woman in literature

9 Woman in history, politics, war Amazons

397 Gipsies Nomads

People without nationalities who do not coalesce with the ruling people among whom they live This includes Gipsy language which til recently had no place in the linguistic groups of 400 as the Gipsy people have no place in the geographic divisions of history

398 Folklore Proverbs, etc.

See also 291-3 Mythology

This section is for material needed in studying Folklore. Mere stories for children unless having a value to students of folklore go in 813 823 etc or in J if there is a Juvenal collection

.1 Primitiv traditions

.2 Legends, tales, traditions

21 Tales

22 Legends Sagas

Legends of Arthur Charlemagne Roland Faust Reynard the fox etc But poems dramas etc based on these legends clas in literature

3 Folklore, traditional beliefs and customs, popular superstitions

31 Fire

32 Haunted localities

Cemeter es burnd cit es ancient ruins haunted houses caves water sources, forests etc

33 Fêtes

See also 394 26 Holidays

331 The year Calendar dates

332 Principal fêtes

1 Spring

11 April 1 All fools day

12 Easter Easter eggs

2 Summer

3 Autumn

4 Winter

41 Christmas

42 New Year

43 Lent

34 Local customs

House outb ldings furniture etc

4 Fairies, elvs, ogers, monsters

Bogies gnomes dragons vampires werewolvs etc

5 Chapbooks

.6 Riddles

.7 Dream books

8 Song books Nursery rimes Popular cries

Including only popular collect ons hardly ranking with Poetry or Music but useful in the study of Folklore etc

9 Proverbs

399 Customs of war

Weapons War dances Treatment of capt vs Scalping Mutilation Burning Cannibalism See also 613 4 Firearms

Philology

400 Philology in general

In philology the general works put under 400-419 deal almost entirely with Indo-European languages. They are put here because they cover most of the divisions of this class and in practice are most convenient here. Under 439-479 and 489 are placed books limited to Teutonic Romance or Hellenic groups and under 491 are placed only such general works as are specifically limited to Indo-European group.

- 401 Philosophy Origin of language
- 402 Compends, outlines
- 403 Dictionaries, cyclopedias
- 404 Essays, lectures, addresses
- 405 Periodicals
- 406 Societies, transactions, etc.
- 407 Teaching and study of languages in general, also of philology

Works on teaching and study of an individual language are classed with that language.

408 Polygraphy Collections Different kinds of language

- .7 Dialects and patois of languages in general Dialectology

Dialects of a special language are classed under number for that language.

- .9 Universal language International Artificial

- 91 Volapuk

- 92 Esperanto

409 History of language Distribution

Divided like 930-999

410 Comparativ

410-419 includes comparative works in general and also comparative works on Indo-European group in general but general and comparative works on Teutonic group are 439 on Romance group 479 on Hellenic group 489. Everything about an individual language is put with that language. 410-416 418 may be divided like 420-426 428.

- 411 Orthography Orthoepy Alphabets
- 412 Etymology, derivation
- 413 Lexicography Lexicology Polyglot dictionaries
- 414 Phonology Visible speech Natural laws of language

See also 612 78 Physiology of speech

415 Grammar, morphology, syntax

416 Prosody

417 Inscriptions Paleography

See also 435 7 475 7 485 7 495. Rare early miss are put in 495

418 Texts

419 Language communicated otherwise than by words or letters of an alphabet

1 Sign language

For deaf mute alphabets see 375 912

2 Picture language

25 Hieroglyphics

See also 493 1

420 English philology

1 Philology 2 Compendia 4 Essays 5 Periodicals 6 Societies 7 Study and teaching 8 Collections 9 History of the language

421 Orthography

See also thus handled treated in General grammar placed under 425

1 Alphabet

For deaf mute alphabets see 375 912

2 Vowels Diphthongs Aspirates

3 Consonants

4 Phonetic spelling Simpler spelling

Spelling reform

5 Orthoepy

6 Accent

7 Paleography Inscriptions

8 Abbreviations

For stenographic and other uncommon contractions and abbreviations see 653 Shorthand

9 Punctuation

422 Etymology Derivation

422 is limited to derivation For reflection also called etymology see 435

1 Origin and laws of English language

2 Prefixes Suffixes

3 Reduplication

4 Foreign elements

5 Noun forms case, number, diminutives

6 Adjectival forms Degrees of comparison

7 Pronominal forms personal, possessive, relative, etc.

8 Verbal forms moods, tense, voice, etc.

9 Particles adverbs, prepositions, etc.

423 Lexicology Dictionaries Idioms

1 Idioms 2 English 3 German etc. Put a dictionary of two languages with the less known language. Under 423 put only English English dictionaries Put an English French dictionary with French 443 2 a French Latin dictionary with Latin 473 4 If in several languages put with 413 or with least known Put French French dictionaries 443 not 443 4 so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known all the dictionaries for translating either into or from that language Some prefer to put each dictionary under the first language 1 e that by which it is alphabeted This gives under each language regardless of its familiarity all dictionaries for translating from it but none for translating into it These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best but in an English library the first plan with only English dictionaries in 423 and both in and out dictionaries together under little known tongues is more convenient References in either case show what may be found in the other place

424 Synonyms Homonyms

425 Grammar

425 includes general works covering also orthography and prosody

.1 Morphology Inflection

Divided like 425 2 Syntax 6 g 15 Nouns etc See 422

.2 Syntax

.3 Arrangement of words and clauses

.4 Particular sentences: conditional, hypothetic, etc.

.5 Nouns

.6 Adjectives Articles

7 Pronouns

8 Verbs

9 Particles

426 Prosody

See also the head Prosody in general grammars 425

.1 Quantity and accent

.2 Versification

3 Feet

.4 Figures of prosody

5 Meters

6 Rimes

7 Strophe and antistrophe

.8 Textbooks for writing verse

9

427 Dialects Patois Language at different periods Slang

1 8 divided like 942 1 8 The Yorkshire dialect is 427 74 Gloucestershire

440 French

Old French as the earliest form of the language is 447.01

447.9 Canadian and creole French, etc.

449 Provençal

.9 Catalan

450 Italian**459 Rumanian**Moldavian Wallachian Dacorumanian Istro-Rumanian Transylvanian,
Bukowinian, Macedo-Rumanian

.9 Romansh

Ladin Friulan Rheto-Romanic

460 Spanish**469 Portuguese**

9 Galician

470 LatinWorks on Latin and Greek together, unless very clearly most useful in
Latin go with Greek which here as well as elsewhere is made to include
general works on the ancient classics**479 Other Italic Medieval and modern
Latin**

Including general works on Romance group

I Romance languages in general

Divided like 420

480 GreekDivide 487 Greek dialects like 930 e.g. 487.2 Alexandrian Greek, 487.3
New Testament Greek 487.81 Macedonian 487.923 Ionic etc.**489 Other Hellenic Modern Greek**

Including general works on Hellenic group

I Classic languages in general

Divided like 420

490 Other languages

Each language subdivided if wisht like 420 English

491 Indo-European languages in general

Besides Teutonic 420-439 Italic 440-479 and Hellenic 480-489

This head 491 includes general works on the Indo-European tongue but general works on the Teutonic languages go in 439 on the Romance up in 479 on the Hellenic group in 489 while most of the material placed under 400-419 is really Indo-European but see also notes under 400 and 410

.1 Indic

.2 Old Indic Sanskrit

27 Sanskrit dialects Pramaṇya Prakrits

.3 Middle Indic or Prakrit par excellence

Popular Hindu idiom Secondary Prakrits

3701 Pali

Language of canonical books of Southern Buddhists

.4 Modern East Indian languages

Tertiary Prakrits

Excluding Dravidian which is 494.8

41 Sindhi

42 Panjabi

43 Hindustani Hindi

Brach Blascha Marjari Dakshin Gorkha

44 Bengali

45 Uriya Orissa

46 Marathi

47 Gujarati

48 Singhalese Elu

5 Iranic

51 Old Persian West Iranic

Official language of Persian kings Language of cuneiform inscriptions

52 East Iranic Zend (Avestan) Old Bactrian

Language of the Avesta or sacred book of Zoroastrianism and the Parsees

53 Pehlevi (Huzwarsch) Parsee

531 Huzwarsch Pehlevi

532 Parsee

54 Armenian

55 Modern Persian Neopersian

56 Ossetic

57 Kurdish

58 Afghani Pushtu

59 Other Iranic languages

591 Baluchi

592 Pamir languages

6 Keltic

61 Gadhelic group

62 Irish

63 Gaelic or Scotch Erse

64 Manx

Language of Isle of Man

65 Cymric group

66 Welsh or Cymric

67 Cornish

68 Armorican or Bas Breton

.69 Basque

- 491.7 **Russian**
 79 **Ruthenian**
 Little Russian Russnak
- .8 **Other Slavic or Slavonic languages**
 Windic Not including Russian class under 491.7 nor Ruthenian class under 491.79
- Southeast Slavonic group*
- 81 **Bulgarian** (Church Slavonic)
 82 **Serbo Kroatian** **Serbian**
 .83 **Kroatian**
 .84 **Slovenian**
- West Slavonic group*
- 85 **Polish**
 86 **Bohemian** **Bohemian Czech**
 87 **Moravian** **Slovakian**
 871 **Moravian**
 872 **Slovakian**
 88 **Sorbian or Sorabian** **Wendish or Lusatian**
 89 **Polabian**
 Slavonic of the Elbe
- .9 **Lettic Baltic languages**
 91 **Old Prussian**
 92 **Lithuanian**
 93 **Lettish**
 99 **Other Indo-European languages**
 991 **Albanian**
- 492 **Semitic**
- Northern group*
- .1 **Aramaic**
 19 **Assyrian** **Babylonian**
 Babylon and Nineveh cuneiform
- .2 **Chaldee**
 3 **Syriac** (Peshito)
- Central group*
- .4 **Hebrew**
 Canaanish dialects
- .49 **Yiddish**
 5 **Samaritan**
 Language of the Pentateuch
- .6 **Phenician** **Punic** **Carthaginian**
- Southern group*
- .7 **Arabic**
 .8 **Ethiopic**
 Ethiopian Semitic languages literary Ethiopic Ghez Abyssinian dialects
 Amharic (language of the Abyssinian court since 1300 A.D.) Tigris Harari
 See also 493.5 Hamitic Ethiopian languages
- .9 **Hamitic or Sabean**
 Ancient language of Yemen and eastern Arabia Minaeen, Sabeen,
 Hadramaut, Eblak

493 Hamitic

.1 Old Egyptian

See 419 25 Hieroglyphics

.2 Coptic

.3 Libyan or Berber group

Algerian Kabyle, Mozabi, Moorish, Touarik or Touareg

.5 Hamitic Ethiopian languages

Hamitic group of languages of central Africa, spoken in south of Egypt and in certain parts of Abyssinia

See also 492 8 Ethiopian Semitic languages

51 Somali

.52 Galla

53 Bedja

Language of Bedouins

54 Saho

.55 Dankali

.56 Agaou

494 Scythian Ural-Altaic Turanian

Except Malay-Polynesian languages class under 499

.1 Tungusic languages

.11 Tungus proper

.12 Lamut

.13 Manchu

.2 Mongol languages

21 Eastern Mongol

22 Kalmuk

.23 Buriat

.3 Turkish or Tatar languages

.31 Yakut

32 Ugurian

321 Ugurian proper

.322 Djagataic

.323 Turkoman

.33 Nogair

34 Kirghiz

.35 Osmanlı or Turkish proper

.4 Samoyed languages

.41 Northern branch

.411 Yurak

.412 Targui

.413 Yeniseian Samoyed

.42 Eastern branch

.421 Samoyed-ostiak

.422 Kamassin

Pure Science

500 Science in general

501-509 all have *Science in general* as their subject but it is treated in these various forms. A periodical on *Chemistry* goes with 540 5 not 505 which is only for periodicals on Science in general. 0 in any class number in any part of the classification shows the subject to be general not specific.

501 Philosophy, theories, utilities, etc.

502 Compendis, outlines

For ancient and medieval science prefer 509 01-02

503 Dictionaries, cyclopedias

504 Essays, lectures, addresses

505 Periodicals, scientific magazines

506 Societies, transactions, etc.

507 Education, methods of teaching and study

Museums

508 Polygraphy, collected works, extracts, etc.

1 Extracts 2 3 General scientific travels 4-9 Travels and surveys (if general) divided geographically like 940-999

509 History of science

For subdivisions see Table 2 following Relative Index

510 Mathematics

Works on *Mathematics in general*, not limited to any one or two sections are grouped by form of treatment like Science in general above 1-6

510 1 Philosophy 2 Collections, compends 3 Dictionaries 4 Essays papers tracts letters 5 Periodicals 6 Societies 7 Education 8 Logarithmic and other tables 9 History

511 Arithmetic

See 372 7 Teaching elementary arithmetic

.1 Systems of arithmetic

See also 512 81 Theory of numbers

.2 Notation and numeration Fundamental rules Abacus

.3 Prime numbers

.4 Fractions

.5 Analysis Permutation and combination

.6 Proportion and progression

61 Magic squares

7 Involution and evolution

.8 Mercantile rules Interest Alligation Mensuration

Gaging

.9 Problems and tables

512 Algebra

- 1 Systems of algebra
- 2 **Numeric equations** *Imaginary expressions*
- 21 Equations 1st to 4th degrees
- 22 Higher numeric equations
- 23 Indeterminate equations Diophantine analysis
- 24 Imaginary expressions
- 3 **Algebraic equations** Maxima and minima
- 4 Series Fractions Binomial theorem Taylor's theorem
- 5 **Combinatory analysis**
- 6 **Proportion and progression**
- 7 **Involution and evolution**
- 8 **Higher algebra**
- 81 Theory of numbers See 511 : Systems of arithmetic
- 82 Theory of equations Complex variable f See also 517 8
- 83 *Determinants*
- 84 *Symmetric functions*
- 85 *Elimination* eliminants and discriminants
- 86 *Transformations* Substitutions
- 87 *Quantics*
- 88 *Invariants* *Covariants* *Contravariants*
- 89 *Universal algebra*
- 9 **Problems and tables**

513 Geometry

Plane and solid geometry bound together at 513 Descriptive geometry at 515
See also 744 Mathematics drawing

- 1 **Plane geometry**
- 11 Right lines
- 12 Intersecting lines
- 13 Parallel lines
- 14 Triangles
- 15 Quadrilaterals
- 16 Other polygons
- 17 *Similarity*
- 18 *Areas*
- 19 *Maxima and minima*
- 2 **Curves**
- 21 Circles
- 22 Conic sections
- 23 Ellipse
- 24 Hyperbola
- 25 Parabola
- 26 Higher plane curves

513 3 Volumetric or solid geometry

- 31 Lines and planes
- 32 Intersecting planes
- 33 Parallel planes
- 34 Polyhedrons
- 35 Pyramids
- 36 Prisms
- 37 Regular

4 With curved surfaces

- 41 Sphere
- 42 Cone
- 43 Cylinder

5 Modern geometry

- 51 Points Lines Planes Duality
- 52 Transversals
- 53 Cones Conics Involution
- 54 Radical axes and centers of similitude
- 55 Poles and polars Reciprocal polars
- 56 Harmonic and anharmonic properties
- 57 Correspondence Correlation of figures
- 58 Quadric surfaces spheroconics curves of double curvature
- 59 Surfaces of higher order cubics

6**7 Infinitesimal and kinematic geometry****8 Non Euclidean geometries Analysis situs**

- 81 Absolute or non Euclidean geometry
- 82 N dimensional geometry
- 83 Analysis situs Geometric topology

9 Problems**514 Trigonometry**

- 1 Trigonometric functions General formulas See 522.7
- 2 Trigonometric series
- 3 Exponential formulas
- 4 Solution of trigonometric equations
- 5 Plane trigonometry solution of plane triangles, analytic
- 6 Spheric trigonometry General formulas
- 7 Solution of spheric triangles
- 8 Differences of triangles, plane and spheric
- 9 Problems

515 Descriptive geometry and projections

See also 744 Mathematical drawing

- .1 Orthogonal projection on 2 planes
 - 11 Straight lines Planes
 - 12 Single curved lines
 - 13 Double curved lines
 - 14 Single curved surfaces
 - 15 Double curved surfaces
 - 16 Surfaces of revolution
 - 17 Warped surfaces
 - 18 Intersections of surfaces
- 2 Isometric and analogous projections
- 3 Oblique projection
- 4 Conic projection
- 5 Spheric projection See 526 & Map projection
 - 51 Orthographic
 - 52 Globular
 - 53 Stereographic
 - 54 Polar
 - 55 Gnomonic
 - 56 Conic
 - 57 Cylindric
- 6 Perspective See also 742 Drawing
 - 61 Plane Parallel Oblique Angular
 - See also 750 for Scene painting
 - 62 Cylindric
 - See also 750 for Panorama painting
 - 63 Shadows natural and artificial light
 - 64 Reflections
 - 65 Circles cylinders and spheres
 - 66 Distortions and corrections
 - 67 Human figure
 - 68 New methods Special devices
- .7 Shades and shadows
- 8 Stereotomy
 - 81 Stonecutting See also 693 12 Masonry 730 Sculpture
 - 82 Carpentry See also 694 Building
 - 83 Stairbuilding See also 694 & Building 729 39 Architectural design

516 Analytic geometry

- | | | |
|----|---|-------------------------------|
| 1 | CARTESIAN | Plane loci |
| 11 | | Right lines |
| 12 | | |
| 13 | | |
| 14 | | Transformation of coordinates |
| 2 | | Curves |
| 21 | | |
| 22 | | Conic sections |
| 23 | | Ellipse |
| 24 | | Hyperbola |
| 25 | | Parabola |
| 26 | | Higher plane curves |
| 3 | | Loci in space |
| 31 | | Right lines |
| 32 | Planes | |
| 33 | | |
| 34 | Transformation of coordinates | |
| 4 | Curved surfaces | |
| 41 | | |
| 42 | Conicoids or quadric surfaces | |
| 43 | Ellipsoid | |
| 44 | Hyperboloid | |
| 45 | Paraboloid | |
| 46 | Surfaces of higher order | |
| 5 | Modern analytic geometry | |
| 51 | Systems of coordinates | |
| 52 | Abridged notation | |
| 53 | Conics | |
| 54 | Higher plane curves | |
| 55 | Poles and polars Reciprocal polars | |
| 56 | Harmonic and anharmonic properties | |
| 57 | Method of projection | |
| 58 | Quadric surfaces sphericonics curves of double curvatures | |
| 59 | Surfaces of higher order cubics | |
| 6 | | |
| 7 | | |
| 8 | Quaternions calculus of direction and position | |
| 9 | Problems | |

517 Calculus

- 1 **Infinitesimal Method of exhaustions**
 Differential and Integral calculus *bound together or put here*
- 2 **Differential**
- 21 Series
- 22 Indeterminate forms
- 23 Change of the independent variable
- 24 Theory of plane curv Curv tracing
- 25
- 26 Theory of curvd surfaces
- 27 Maxima and minima
- 28
- 29 Problems
- 3 **Integral**
- 31 Formulas of reduction and integration
- 32 Definit integrals Eulerian integrals
- 33 Rectification Quadrature Cubature
- 34 Multiple integrals
- 35 Laplace s functions Bessel s and allied functions
- 36 Elliptic and hyperelliptic functions Abelian functions
- 37
- 38 Differential and partial differential equations
- 39 Problems and tables
- 4 **Of variations**
- 5 **Of functions**
- 6 **Of finite differences**
- 7 **Of operations**
- 8 **Of imaginaries Complex variables See also 512 82**
- 9 **Problems**

519 Probabilities

- 1 **General principles Direct and inverse probabilities**
- 2 **Mathematic and moral expectation**
- 3 **Testimony decisions of juries and tribunals**
- 4 **Probability of future events deduced from experience**
- 5 **Life contingencies annuities, life insurance See 368 3**
- 6 **Errors of observation Mean or average values**
- 7
- 8 **Method of least squares**
- 9 **Problems**

520 Astronomy

520 1 Astrology see 133 5 520 2 Compendes 520 3 Dictionaries 520 4 Essays
 520 5 Periodicals 520 6 Societies 520 7 Study and teaching of astronomy
 520 8 Collections etc 520 9 History of astronomy
 See also note under Pure science in general 500 509

521 Theoretic astronomy

Mathematic investigation of celestial motions specially of the Solar system
 Motions of individual bodies are classed under separate heads in 523

1 Celestial dynamics

11 General laws of equilibrium and motion See also 531 2

12 Law of universal gravitation and motion

See also 531 51

13 Problem of 3 bodies

14 Figures of heavenly bodies

15 Rotation of heavenly bodies

2 Geocentric and heliocentric place

21 Plane of orbit in space

22 Position of orbit in its plane

23 Position of body in its orbit

24 Position of body in space

25 Heliocentric longitude and latitude

26 Geocentric longitude and latitude

27 Variations of right ascension and declination

28 Variations of longitude and latitude

29

3 Orbits

31 Definitions of orbits

32 Determination from 3 observations

33 Determination from 4 observations

34 Variation of elements of orbit

35 Correction of approximate elements of orbit

36 Application of method of least squares

37 Kepler's problem

38 Equation of center and radius vector

39

4 Perturbations

41 Mutual action of planets

42 Action of satellites

43 Nonsphericity of planets

44 Resisting medium

5 Theory of planets

6 Theory of satellites

7 Theory of comets

8 Theory of eclipses

9 Precession and nutation See also 522 95 96

522 **Practical and spheric****1 Observatories**

- 11 General plan location
- 12 Material and mechanism of dome drum etc
- 13 Transit bildings wings etc
- 14 High altitude observatories
- 15 Portable
- 19 History reports and serial publications of observatories

2 Telescopes See also 535 83 Optics

- 21 Reflecting
- 22 Refracting
- 23 Eye piece and accessories
- 24 Object glas
- 25 Mounting tube etc
- 26 Equatorial mounting
- 27 Transit mounting
- 28 Observing chairs etc
- 29 Famous telescopes

May be divided like 930-999

3 Meridional instruments

- 31 Finding meridian line
- 32 Mural circles
- 33 Meridian circles
- 34 Transit placing in position
- 35 Collimation constant
- 36 Level constant
- 37 Azimuth constant
- 38 Other constants flexure index error etc

4 Extra meridional instruments

- 41 Sextant and quadrant reflecting circle astrolabe
- 42 Altazimuth
- 43 Zenith telescope
- 44 Transit out of meridian
- 45 Helometer
- 46 Equatorial
- 47 Prime vertical

5 Auxiliary instruments

- 51 Sidereal clock and chronometer
- 52 Electrochronograf
- 53 Micrometers
- 54 Personal equation machine See also 522 97 Correct ons
- 55 For illumination
- 56 For solar observation
- 57 Artificial horizons
- 58 Helio-stat

522 6 Auxiliary observations

- 61
- 62 Photometry See 535 2 Optics
- 63 Photography See 535 85 Optics 770 Photography
- 64
- 65 Polarization See 535 5 Optics
- 66
- 67 Spectroscopy See also 535 84
 Technic application to astronomy and use with telescope For results see
 523 37 523 57 523 67 523 77 523 87

68

69

7 Spheric astronomy See also 514 6

- 71 Celestial sphere Spheric coordinates
- 72 Rectangular coordinates
- 73 Transformation of coordinates
- 74 Differential variations of coordinates
- 75 Interpolation
- 76 Meridian line Variation of compass
- 77 Reduction of observations to the meridian
- 78 Use of globes

79

9 Corrections

- 91 Parallax
- 92 Refraction See 535 3 Optics
- 93 Semidiameter of celestial bodies
- 94 Aberration
- 95 Precession See 521 9
- 96 Nutation
- 97 Personal equation See 522 54
- 98 Instrumental errors

99

523 Descriptive astronomy

1 Universe

- 11 Structure of universe
- 12 Nebular hypothesis
- 13 Plurality of worlds
- 14 Space and its temperature
- 15 Resisting medium
- 16 Cosmic dust
- 17 Repulsive force

- 523 2 Solar system**
- 21 Distributiv laws of planets
 - 22
 - 23 Conjunctions and oppositions
 - 24 Motion of solar system in space
 - 25 Constitution of planetary system
 - 26 Stability of solar system Ecliptic
 - 27
 - 28 Orrery planetarium, gyroscope etc
See 531 34 Rotation
 - 29 Zodiac
- 3 Moon**
- 31 Constants size, mass Distance and parallax
 - 32 Heat and light Phases
 - 33 Orbit and motions
Sideral month tropical perigee and apogee sun and earth's attraction, libration See also 521 6 for Orbit
 - 34 Features of surface mountains plains, etc
 - 35 Atmosphere
 - 36 Physical condition
 - 37 Spectrum
 - 38 Eclipses
 - 39 Charts photographs etc
- 4 Planets**
- 41 Mercury and intramercorial
 - 42 Venus
 - 43 Mars
 - 44 Asteroids
 - 45 Jupiter
 - 46 Saturn
 - 47 Uranus
 - 48 Neptune and transneptunian
 - 49 Charts photographs etc
- 5 Meteors and zodiacal light**
- 51 Meteorites
 - 52 Fireballs
 - 53 Meteoric showers radiant points etc
 - 54 Systems of meteors
 - 55
 - 56 Connection of comets and meteors
 - 57 Spectrum
 - 58 Hight of atmosphere from observation
 - 59 Zodiacal light Aurora (borealis and australis)

524 Maps, observations, and tables

Series of observatory publications may be kept together under 524 or under 522 19 with the history and reports of the observatory. Special maps or observations e. g. on Sun or Moon are better placed in subsections *9 under those heads* in 523 with charts and photographs e. g. 523 79 thus leaving 524 524 8 blank. These numbers are printed to provide a place in case it is wisht to keep *all* maps and observations together.

- 3 Of moon See also 523 39
- 4 Of planets See also 523 49
- 5
- 6 Of comets See also 523 69
- 7 Of sun See also 523 79
- 8 Star catalogs See also 523 89

525 Earth

- 1 Constants
 - 11 Mass Weight
 - 12 Density
 - 13 Dimensions diameter
 - 14 Figure geomorphy equatorial belt
 - 15 Distance from sun
 - 16 Parallax
- 2 Heat Light
- 3 Orbits and motions
 - 31 Period of revolution
 - 32 Obliquity of ecliptic to equator
 - 33 Eccentricity
 - 34 Perturbations
 - 35 Rotation
 - 36 Foucault's pendulum
 - 37 Deviation of falling bodies and projectiles
 - 38 Tables of the sun Apparent motion See 523 73 Sun
- 4 Geographic coordinates
 - 41 Finding latitude See also 527 1
 - 42 By meridian altitudes
 - 43 By Pole star
 - 44 By altitude of 2 or more stars
 - 45 By other methods
 - 46 Finding longitude See also 527 2
 - 47 Terrestrial means chronometers telegraf signals
 - 48 Celestial signals eclipses occultations transits
 - 49 Lunar methods
- 5 Seasons
 - 51 Effect of inclination of equator to ecliptic
 - 52 Effect of eccentricity of earth's orbit
 - 53 Secular changes of seasons
 - 54 Seasons on Mars and other planets

- 525.6 Tides**
- 61 Mathematic theory
 - 62 Effect of sun and moon in producing tides
 - 63 Distribution, diurnal inequality, spring and neap, priming and lagging
 - 64 Establishment of a port Coast form modification
 - 65 Velocity of height of tide wave
 - 66 Tides on inland seas
 - 67 Supposed effect in retarding Earth's revolution
 - 68 Tide registering and predicting machines
 - 69 Tide tables
- .7 Twilight**
- 526 Geodesy**
- 526.2-8 apply to surveys of large tracts requiring allowance for earth's curvature and more exact methods of determination For local surveys see 526.9
- .1 Theory and determination of Earth's figure**
 - 11 Potentials of ellipsoids
 - 12 Equilibrium of rotating spheroid
 - 13 Law of ellipticity
 - 14 Airy's and Pratt's theories as to attraction of mountains
 - 15 Determination of figure by Airy, by Bessel, and by Clarke
 - 16 Ellipsoidal figure and position of axes
 - 17 Geoidal figure
 - .2 Base measuring and apparatus**
 - 21 Standards of length and temperature
 - 22 Apparatus of Struve, Bessel, Colby, U S coast survey, U S lake survey, etc
 - 23 Adjustments of apparatus
 - 24 Location of base line
 - 25 Field operations
 - 26 Calculation of results and corrections
 - 27 Verification
 - .3 Field work of triangulation**
 - 31 Reconnaissance
 - 32 Stations
 - Names signals tripods scaffolds and towers surface and underground monuments
 - 33 Observations, instruments and records
 - 34 Reduction to station's center
 - 35 Corrections for phase of signal and eccentricity
 - 36 Spirit leveling
 - 37 Barometric leveling
 - 38 Trigonometric leveling
 - 39
- These are methods See 551.53, for results lists of heights etc.

526.4	Computation of triangulation
41	Spheric excess
42	Legendre's theorem
43	Chord process
44	By spheric trigonometry
45	By spheroidal trigonometry
	See also application of least squares, 526.5
46	L M Z formulas and applications
47	Direct deduction by Bessel
48	Deduction by Puissant
49	Tables for computation
5	Theory of least squares in adjustment of figures, etc
51	Method of independent angles
52	Adjustment of a quadrilateral
53	Adjustment of triangulation net
54	Method of directions
55	Adjustment for closure of a circuit
56	Method of repetitions
57	Adjustments of base measures
58	Adjustments of leveling
6	Astronomic determinations and their connection with geodetic results
61	Latitude determinations
62	Longitude determinations
63	Azimuth determinations
64	Effect of irregularities of Earth's surface on latitude longitude and azimuth
65	Effect of same on angles of triangle
7	Gravity experiments and results
71	Mathematic theory
72	Pendulum apparatus
73	Pendulum operations
74	Corrections
75	Reduction of results
8	Map projections See also Spheric projections
81	Perspectiv projections
82	Orthomorphic projections
83	Development projections
84	Zenithal projections
85	Equivalent projections

- 526 9 **Surveying**
- 91 Instruments and methods See 526 2
 - 92 Mesurement of distances
 - 93 Mesurement of angles
 - 94 Mesurement of hights
 - 95 Leveling See 526 36-38
 - 96 Plotting
 - 97 Computation of areas
 - 98 Topografic drawing
 - 99 For special purposes military, naval, railroad mining, etc
- 527 **Navigation Nautic astronomy**
- 1 Finding latitude at sea See also 525 41
 - 2 Finding longitude at sea See also 525 46
 - 3 Finding time at sea See also 529 74
 - .4 Sumner's method
 - .5 Great circle sailing
- 528 **Ephemerides Nautic almanacs**
- May be fu the subdivided like 061-068
- .1 American .4 French .7 Slavic
 - 2 English .5 Italian .8 Other
 - 3 German 6 Spanish .9 Ephemeris making
- 529 **Chronology**
- 1 Sidereal and solar day
 - Apparent and mean time equation of time causes of inequality
 - .2 Eras, kinds of years, months, weeks, decades etc.
 - .3 Kalendars in general, including ancient and nonchristian
 - 4 Christian kalendars
 - 41 Coptic and other primitiv Christian kalendars
 - 42 Kalendar of Julius Caesar
 - 43 Kalendar of Gregory 1582- Almanacs
 - 44 Ecclesiastic kalendar determination
 - For feasts etc and kalendars themselves see 264 021, 264.031 etc
 - 5 Modern projects for reform of kalendar
 - .7 **Horology**
 - 71 Finding time by transit
 - 72 Finding by equal altitudes
 - 73 Finding by single altitude
 - 74 Finding by sextant See also 527 3
 - 75 Time systems and standards
 - 76 Distribution of time
 - 77 Cosmic time
 - 78 Instruments for mesuring dials hourglasses clocks, watches etc
 - See 522 51 for S dereal clocks and chronometers
 - See 681 11 for Clock and watch making

530 Physics

Like Science in general viz. general works only ar arranged

530 1 Philosophy 2 Compendis textbooks 3 Dictionaries 4 Essays lectures etc
5 Periodicals 6 Societies 7 Education methods of teaching experiments
8 Physical units 9 History

531 Mechanics

- 1 Pure motion Kinematics
- 2 Statics Graphic statics
- 21 Force and its mesure
- 22 Composition of forces and motions
- 23 Moments
- 24 Parallel forces Center of gravity
- 3 Dynamics Kinetics
- 31 Rectilinear motion
- 32 Vibration
- 33 Undulation
- 34 Rotation
- 35 Centrifugal and centripetal force
- 4 Work Friction See 621 89 Lubrication
- 41 Unit of work
- 42 Diagram of work
- 43 Laws of friction Modulus of machines
- 44 Sliding friction
- 45 Rolling friction
- 5 Gravity
- 51 Law of universal gravitation
- 52 Laws of falling bodies
- 53 Pendulum
- 54 Mass density etc
- 55 Projectils
- 58 Apparatus for illustration
- 6 Conservation of energy
- 7
- 8 Machines Transmission of force
See also 621 8 Mechanism of transmission
- 81 Lever and balance
- 82 Wheel and axle
- 83 Cord and catenary
- 84 Pulley
- 85 Inclined plane
- 86 Wedge
- 87 Screw
- 88
- 9 Tables Problems Questions

532 Liquids Hydrostatics Hydraulics

- .1 Properties of liquids Pressure
- .2 Equilibrium of liquids
- 3 Buoyant effects Floating bodies
- .4 Specific gravity Hydrometer
- .5 Liquids in motion Hydrodynamics
 - 51 Theoretic flow
 - 52 Orifices, adjutages, fluid vein
 - 53 Weirs overfalls
 - 54 Pipes, open channels, rivers
 - 55 Bends valves sudden enlargements and contractions
 - 56 Efflux variable pressure
 - 57 Hydrometry Velocity
 - 58 Impulse and resistance
 - '59 Theory of waves
- 6 Capillary attraction
- .7 Osmose Absorption
- .8

rather than attempt division

- 81 Hydraulic press See also 621 266
- 82 Hydraulic engine See also 621 25
- 83 Water ram See also 621 27
- 84 Water wheels See also 621 21
- 85 Water blast See also 621 269

- 9 Tables Problems Questions

533 Gases Pneumatics

- .1 Properties of gases and vapors Absorption
- 2 Laws of compressibility
- .3 Atmosphere
 - 4 Barometer
 - 5 Air pump
 - 6 Aeronautics
- 7 Kinetic theory of gases
- 8 Applications See 621 6 Blowing and pumping engines
Preferably class in Useful arts see 532 8 note
- 82 Manometer Pressure gages See 621 13.473 Steam generation
- 83 Condensing pump
- 84 Force pump
- 85 Suction pump
- 86 Diving bell
- 87 Forge bellows
- 88 Pneumatic dispatch
- .9 Tables Problems Questions

534 Sound Acoustics

- 1 Theory Undulations
- 2 Propagation of sound velocity, diffraction
- 3 Musical sound Tuning forks See also 781 1 Theory of music
- 4 Analysis of sounds Resonators
- 5 Superposition of vibrations
- 6 Graphic representations
- 7 Physiologic ear and larynx
For other relations see Ear Larynx in Relat v index following Tables
- 8 Applications Preferably class with topics elsewhere See 532 8 note
- 81
- 82
- 83 Signals in navigation See also 654 9 Communication
- 84 Applications to architecture
- 85 Musical instruments See also 780 Music
- 86 Phonograph
- 9 Tables Problems Questions

535 Radiation Light Optics

- 1 Theory
- 2 Propagation Velocity Measurement
- 3 Reflection Refraction Absorption
See also 522 92 Astronomy
- 4 Dispersion Diffraction Interference
- 5 Polarization Polaroscope Double refraction
- 6 Color
- 7 Physiologic eye
Optical properties of sight See also Eyes in Relat v index
- 8 Applications Preferably class with topics elsewhere See 532 8 note
- 81 Lenses and prisms
- 82 Microscopes and magnifiers See also 578 Microscopy
- 83 Telescopes See also 522 2 Astronomy
- 84 Spectroscopes and spectrum analysis
Most general number See also Spectroscopy Spectrum in Relat v index for other relations and applications
- 85 Photography See also 770
- 86 Other applications of lenses
- 87 Mirrors and reflecting instruments
- 88 Lighthouses See also 627 9 Harbor engineering 656 Commerce
- 89
- 9 Tables Problems Questions

536 Heat

- 1 Theory Nature
- 2 Communication
- 3 Action of bodies on heat
 - 31 Reflection
 - 32 Refraction
 - 33 Radiation
 - 34 Absorption
 - 35 Diathermancy
- 4 Effects Action of heat on bodies
 - 41 Expansion
 - 42 Liquefaction
 - 43 Solidification
 - 44 Vaporization and condensation
 - 45 Incandescence
 - 46 Combustion Flame
- 5 Temperature See also 551.52 Meteorology 613.18 Hygiene
 - 51 Thermometry
 - 52 Pyrometry
 - 53 Electric methods of measuring
- 6 Calorimetry
- 7 Thermodynamics Mechanical equivalent
- 8 Applications Preferably go in Useful arts See 532.8 notes
 - 81 Steam engines See 621.1 Engineering
 - 82 Gas engines See 621.43 Engineering
 - 83 Heating See 697 621.19 628.8 644
 - 84 Ventilation See 697 622.4 628.8
- 9 Tables Problems Questions

537 Electricity

See also 621.3 Electric engineering

- 1 Theory Nature
- 2 Static
 - 21 Quantity potential
 - 22 Conduction distribution
 - 23 Machines
 - 24 Condensers
 - 25 Electrometers
- 3
- 4 Atmospheric Lightning rods
- 5 Dynamic
 - 51 Theory of coils Constants
 - 52 Induction spark
 - 53 Induction spark in rarified gases
- 6 Electro dynamics
- 7 Electric measurements

- 537 8 Applications Preferably class in Useful arts See 621.3 and 537.8 note
- 81 Telegraf For telegraph business see 654
- 82 Telephone Microphone
For telephone business see 654.6
- 83 Dynamos Electric lighting
- 84 Transmission of power Storage
- 85 Electrometallurgy
- 86 Galvanometers Batteries Coils
- 87 Medicine See also 615.84
- 88 Electric signals See 634.9
- 9 Tables Problems Questions

538 Magnetism

For Animal magnetism Mesmerism etc see 134

- 1 Theory Properties of magnets Lines of force
- 2 Communication Induction Touch
- 3 Electromagnetism
- 4 Diamagnetism
- 5
- 6
- 7 Terrestrial magnetism
- 8 Applied Magnetic machines
- 9 Tables Problems Questions

539 Molecular physics

- 1 Theory Molecular structure Vortex rings
- 2 Properties of solids
- 3 Elasticity Torsion
- 4 Strength of materials
See also 620.1 Engineering materials
- 5 Permanent displacement of molecules
- 51 Malleability
- 52 Ductility
- 53 Hardness
- 54 Tempering
- 6 Intermolecular forces
- 7 Radioactivity
See also 547.38 Radiochemistry 546.432 Radium
- 8
- 9 Tables Problems Questions

540 Chemistry

Pure or theoretic chemistry

1 Early theories alchemy phlogiston 2 Compendia 3 Dictionaries cyclopedias
 4 Essays lectures etc 5 Periodicals 6 Societies 7 Education
 methods of teaching 8 Collective works 9 History

SUMMARY

- 541-542 General chemistry
 541 Chemical theories
 542 Operative and experimental chemistry
 543-545 Analytical chemistry
 543 Analysis
 544 Qualitative analysis
 545 Quantitative analysis
 546 Inorganic chemistry
 547 Organic chemistry

REFERENCES

- 612.015 Physiological chemistry 660 Chemical technology
 615 Medical " 669 Metallurgy
 616.0756 Pathological " 770 Photography

541 Theoretic chemistry Physical chemistry

Modern chemical theories General properties of bodies from chemical point of view
 Composition Constitution Elements and compounds Affinity
 Formulas Nomenclature

.1

.2 Atomic theory

Ultimate constitution of matter Nature and phases of ultimate particles
 atoms ions anions electrons Atomicity Relationship of mass to
 chemical properties of bodies Laws of chemical combination weight definite
 proportions equivalence multiple proportions Laws of volume for gases
 Simple or compound nature of chemical elements Molecules Atomic and
 molecular weights methods of determination Atomic and molecular volumes
 Laws fundamental to atomic theory see also 541.9 Classification periodic law
 etc

See also physics 532.4 Specific weights

.3 Physical chemistry

Borderland between physics and chemistry Including densities in different
 phases chemical affinity statics and dynamics thermochemistry and electro-
 chemistry

31 Solid state

See also physics 536.43 Solidification 539.2 Properties of solids

32 Liquid state

See also physics 532.1 Properties of liquids 536.42 Liquefaction 541.34
Solutions

.321 General

Surface tension vapor tension viscosity capillarity

32< Special types of liquids gelatinous liquids

326 Inorganic liquids

327 Organic liquids

33 Gaseous state

Subdivided by 541.32 See also physics 533.1 Properties of gases 536.44
Vaporization

- 541 34 Solute state Solubility
 341 General
 Surface tension viscosity, diffusion osmosis conductivity See also 537 7
 Osmosis of liquids, 542 61 Dissolving
 1 Theories kinetic, hydrate and dissociation
 2 Laws Terminology
 342 Solution pressure Solubility
 Tables of solubility
 344 Solubility and solution of different forms
 1 Solids 2 Liquids 3 Gases Absorption
 345 Solution types
 2 Colloid solutions Emulsions
 Including general discussion of colloids
 346 Solvents
 35 Photochemistry
 Relation of light to chemie action of polarized light to chemie structure etc
 36 Thermochemistry
 Relationship of heat to chemie properties of bodies Thermodynamics and energetics applied to chemistry Relations between specific heat and chemie constitutions Molecular heats atomic heats latent heats of physical allotropic and chemie transformations Principle of initial and final phases Study of changes of phase Melting points and boiling points Liberation and absorption of heat in reactions Exothermic and endothermic reactions Variation with temperature of the quantity of heat used in transformations Principle of maximum work
 37 Electrochemistry
 378 Magnetochemistry
 38 Radiochemistry
 Chemistry of radioactive substances See also 539 7 Radioactivity 540-437 Radium
 39 Chemie dynamics, statics and equilibrium Affinity
 Homogeneous and heterogeneous chemie equilibria Kinetic theory of chemie equilibria (of Guldberg and Waage Pfundler van t Hoff) thermodynamic theory (of Willard Gibbs, of Hirstmann of van t Hoff of Duhem etc) Reaction velocities Accelerating and retarding influences Catalysis See also in physics 536 7 Thermodynamics and energetics
 Variation of affinity with physical conditions Valence Combinations Unbrusted and limited decomposition Dissociation efflorescence limits of dissociation and maximum dissociation Combustion
 4 Various types of compounds
 Acids bases salts alloys
 5 Molecular types
 6 Compound radicals
 Stereochemistry Formulas of structure
 7 Allotropy
 Isomerism Amorphous and crystalline states Tautomerism Polymerism
 Class here material on structure not included in 545 6
 9 Other general subjects
 Classification Nomenclature Notation Formulas Stoichiometry
 Tables Periodic law

542 Practical and experimental chemistry

- Manipulations Chemisic operations For analyses see 543-545
- .1 Laboratories
 - Interior construction and installation General arrangements For architecture see 727.5
- .2 Apparatus and manipulations For special apparatus see 543.3-9
 - 21 Manipulations Arrangements Procedure
 - 22 Preparation of substances
 - Mechanic separation trituration pulverization porphyzation mortars and pestles crushers sifting and sives Disintegration by wetting heated mass Levigation
 - .23 Laboratory receptacles and their accessories
 - For uses of receptacles see also various processes and operations
 - .231 Glas and quartz
 - Beakers bottles flasks retorts test tubes funnels adapters glass rods and tubing
 - 5 Glas manipulation - blowing, grinding
 - 232 Porcelain
 - Evaporating dishes tubes retorts Refractory pottery crucibles plates
 - 233 Metallic
 - Containers made of platinum silver iron nickel aluminum etc
 - 24 Supports Fixt adjustable wood. Triangles tripods clamps
 - 25 Stoppers Glas cork rubber Corkborers
 - 26 Rubber tubing Luting and cements
 - 29 Other appliances
- .3 Mesuring apparatus
 - 32 Determination of weights and density
 - Balances and weights Descriptions and directions for use
 - 33 Specific gravity apparatus Glas preferably in 532.4
 - 35 Determination of volume
 - Mesuring volume of liquid Calibrated vessels Graduated pipets burets and cylinders
- .4 Heating Distillation
 - See also 536.5 Measurement and regulation of heat 542.53 Blowpiping
 - 41 General
 - 42 Heating with coal
 - Laboratory furnaces trof cupola reverberatory tubular cupel blast
 - Tube furnaces for organic analysis
 - 43 Heating with liquid fuels, etc Lamps special burners
 - 44 Heating with gas
 - Coal gas carburetted air acetylene etc
 - Fishtail and Bunsen burners gas furnaces and grates pressure regulators
 - 46 Indirect heating
 - Baths and heaters water baths salt metal and oil baths metal plates or wire gauzes
 - 47 Electric heating
 - Heaters muffles and furnaces kryptol furnaces
 - See also 542.8 Electric and galvanic manipulations
 - 48 Operations
 - Melting fusing boiling Vaporization distillation Distilling apparatus alembics or stills Deflegmators Vacuum operations
 - Evaporation with heat sublimation dessication For evaporation in vacuum see 542.77
 - 49 Other heating operations

- 542 5 **Flames Blowpipes**
 See also 544 2 Dry methods of analysis 569 9 Assaying
- 51 **Flame**
 Nature of flame candle flame oxidizing and reducing flames
- 52 **Coloration of flame**
 Beads colored beads Composite flames
- 53 **Blowpipes**
 Varieties of blowpipes and how to use them
 For applications see Blow piping in Relative index following Tables
- 6 **Aqueous and liquid treatment**
 Dissolving aqueous separation levigation etc alcohol ether carbon disulfide hydrocarbons etc
- 61 **Dissolving Solution**
 Solvents maceration digestion decoction lixiviation
- 62 **Determination of solubility Supersaturation**
 Supersaturated solution
- 63 **Diffusion**
 Lowering the solidification point or surfusion
- 64 **Dialysis Dialyzers**
 See also qualitative analysis 544 3 Dialysis
- 65 **Solidification**
 Precipitation crystallization crystallizers
- 66 **Decantation**
 Decantation funnels Florentin receivers siphons pipets
- 67 **Filtration and filters**
 Filtration with textiles with paper thru cotton asbestos powders etc
 Hot filtration Filtration in sealed vessels by suction by compression
 Filter presses
- 68 **Expression and presses** Drying of press residues dry press machines
- 69 **Washing** Continuous automatic decantation wash bottles
- 7 **Gas manipulation**
 See also 545 7 Eudiometry
- 71 **General**
- 72 **Gas production**
- 73 **Gas collecting and decanting**
 Pneumatic trough gas sampling tube gas pipets displacement and decanting
- 74 **Washing and dissolving gas**
 Wash bottles Apparatus for drying and absorbing gas
- 75 **Gas storage** Gasometers rubber bags
- 76 **Gas measurement** Graduated tubes meters
- 77 **Rarefaction of gas**
 Pumps air vacuum mercury blowing engines bellows suction gasometers
 manometers vacuum regulators trompes
 See also physics 533 5 Air pumps
- 78 **Gas compression**
 Sealed tubes and bulbs bellows compression pumps gasholders
- 79 **Gas liquefaction and solidification**
 Faraday tubes Apparatus for expansion of Thilorner of Cailliet and
 Linde

- 542.8 Electric and galvanic manipulations**
 See also physics 537.85 Applications of electricity to chemistry. Clas here only apparatus for preparing chemie substances not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545

.9 Other operations

Attacks by acids and gases oxidations reductions etc

543-545 Analytic chemistry

543 Analysis

Divided by material analyzed whether qualitatively or quantitatively i.e. substance takes precedence of process. Clas in 543 general works covering both qualitativ and quantitativ analysis.

See also 614.3 Adulterations

.1 Analysis of food and drink

See also 613.2 Hygiene 613.39 Nutrition

.2 Dairy products Milk

See also agriculture 637 Dairy products

.3 Water

See also hygiene 613.31 Water as a beverage and therapeutics 615.79 Mineral waters

.4 Analysis of drugs and medicins

See also 614.35 Inspection of drugs 615. Medicin

5 Poisons

See also 615.9 Toxicology

.6 Analysis of rocks and ores

See also 549 Mineralogy 669.9 Assaying 631.41 Soil chemistry

.7 Analysis of inorganic products in general

For general works and special matter not provided for in previous subdivisions of 543

.8 Analysis of organic products in general

For general works and special matter not provided for in previous subdivisions of 543

9 Analysis of organic products of animal origin

For general works and special matter not provided for in previous subdivisions of 543. See also 577 + Biology

544 Qualitative analysis

Determination of chemical elements of substances General processes and methods

- .1 **Wet method**
 - 11 Reagents
 - 12 Determination of bases
 - .13 Determination of acids
- .2 **Dry method**
 - See also 669 9 Assaying
- .3 **Blowpiping**
 - For other relations see Relative index
- .4 **Gas analysis** **Reactions**
 - Identifying an isolated gas Analysis of gaseous mixtures See also 545 7
 - Eudiometry
- .5 **Dialysis**
 - For technique see 542 64 for electric dialysis see 542 8
- .6 **Spectrum analysis**
 - See also physics 535 84 Spectrum analysis
- .7 **Polariscopic analysis**
 - See also physics 535 5 Polarization
- .8 **Microscopic examinations**
- 9 **Other methods**
 - Electroanalysis
- 92 **Capillary analysis**

545 Quantitative analysis

- 1 **Gravimetric**
 - Analysis by weighing sample taking
- .2 **Wet method**
 - Titration solution alkalimetry acidimetry
- .3 **Electric methods**
 - See also physics 537 85 Electrometallurgy
 - For galvanoplastics see 671
- 311 **Constant current analysis**
- 312 **Constant voltage analysis**
- 36 **Catalytic analysis**
- 4 **Dry method**
 - Quantitative analyses with blowpipe cupellation etc
 - See also 669 9 Assaying
- .5 **Titrimetric methods in general**
- 6 **Volumetric analysis of liquids**
 - See also 542 3 Measuring apparatus
- 7 **Volumetric analysis of gases**
 - Eudiometry and eudiometers gas burets absorption pipets
 - See also 544 4 Gas analysis
- 8 **Other methods**
 - Colorimetric Polarimetric Refractometric
- .9 **Synthesis**
 - General processes
- 97 **Electric synthesis**

- 546 9 **Platinum group**
 91 Gold
 92 Platinum
 93 Iridium
 94 Osmium
 95 **Ruthenium group**
 96 Ruthenium
 97 Rhodium
 98 Palladium
 .99 **False and putative elements**
 Arrange alphabetically

547 **Organic chemistry**

- .1 **Cyanogen and its compounds**
 .2 **Hydrocarbons Fatty series**
 For occurrence as minerals see 549 8
 21 Paraffins
 22 Olefins
 23 Acetylenes
 24 Valylene Dipropargyl, etc.
 .25 **Aromatic series**
 26 Benzenes
 27 Diphenyl group
 28 Naphthalene Anthracene Phenanthrene
 29 Higher series
 .3 **Alcohols Phenols**
 .4 **Ethers: simple, compound; haloid**
 .5 **Aldehydes**
 .6 **Ketones Quinones**
 .7 **Acids: acid halids, acid anhydrids, sulfo-acids**
 .8 **Nitroderivates: amins, compound ammoniums, amids,**
 amic acids, azo-bodies, azoxy-bodies, hydrazo-bodies,
 diazobodies
 .9 **Compounds with metals**

Subdivided like 547 2

548 Crystallography

General phenomena of a special mineral belong with that mineral e.g. cleavage of borates 549 73

- .1 Systems of crystallization
- 2 Twin crystals Crystalline aggregations
- 3 Cleavage Isomorphism Polymorphism
- 4 Irregularities Internal imperfections
- 5 Formation and growth of crystals
- 6 Pseudomorphs
- 7 Mathematic measurement of angles
- 8 Physical
- 9 Optical

549 Mineralogy

01 Philosophy classification 02 Compendia 03 Dictionaries 04 Essays papers etc 05 Periodicals 06 Societies 07 Study and teaching museums 08 Collectiv works 09 History

- .1 Determinative Blowpiping
See also 543 6 Methods of analysis of rocks and ores
See 542 53 Blowpipes and their manipulation For other relations see Blowpiping in Relative index following Tables
- 2 Native elements
- 3 Sulfides, tellurides, selenides, arsenides, antimonides, bismuthides
- .4 Compounds of chlorine, bromine, iodine, and fluorine
- 5 Oxygen compounds oxides
- 6 Silicates
- 61 Anhydrous
- 65 Hydrates
- 7 Other ternary oxygen compounds
- 71 Tantalates Columbates
- 72 Phosphates Arsenates Vanadates Antimonates
Nitrates
- 73 Borates
- 74 Tungstates Molybdates Chromates
- 75 Anhydrous sulfates
- 76 Hydrates sulfates
- 77 Tellurates
- 78 Carbonates
- 79 Oxalates
- 8 Hydrocarbons
Occurrence as minerals For chemistry of hydrocarbons see 547.2 for economic geology see 553.2
- .9 Geographic distribution
Divided like 940-999 For economic geology see 553 09

550 Geology

550 1 Philosophy theories geologic time 2 Compendia 3 Dictionaries 4 Essays
papers tracts letters 5 Periodicals 6 Societies 7 Study and teaching
museums 8 Collectiv works 9 History

551 Physical and dynamic geology

Including geophysics (physography physical geography) and geochemistry broadly
treated see also 551.94 For Cosmic geography see 523

1 Structure of earth as a whole

11 Interior of earth

12 Internal heat

13 Earth's crust

14 Conductivity of rocks

2 Seismology

21 Volcanoes

22 Earthquakes

23 Hot springs geysers

24 Oscillations of the earth's crust

3 Erosion and deposition

31 Glaciers and glacial phenomena

32 Moraines

33 Transported materials till

34 Icebergs

35 Aqueous erosion

36 Coast changes

37 Aerial erosion

4 Surface features of the earth

41 Continents

42 Islands

43 Mountains Valleys Orology

44 Caves

45 Plains

46 Oceans Submarine topography

47 Ocean currents

48 Rivers Lakes

49 Springs Wells Ground water

5 Meteorology Climate

51 Atmospheric currents Winds

52 Thermometry, heat

For other relations see Heat, Temperature in Relative index following Tables

53 Hypsometry, elevations See 526.36-8 for methods

54 Barometry, pressure

55 Storms

See also 537.4 Atmospheric electricity

57 Moisture rainfall, flow of streams floods

58 Prairies, forests and deserts

Division of Oceans for use under 46
and 47

1 Atlantic North sea Baltic

2 Mediterranean Black sea

3 Gulf of Mexico Caribbean

4 Southern Atlantic

5 Pacific

6 Eastern Pacific or American coast

7 Indian Bay of Bengal Red sea

8 Arctic

9 Antarctic

- 551 6 **Metamorphism**
- .7 **Stratigraphic geology**
- 71 Archean
- 72 Primary, paleozoic, Cambrian
- 73 Silurian
- 731 Lower Silurian
- 732 Upper Silurian
- 74 Devonian Old red sandstone
- 75 Carboniferous
- 76 Secondary, mesozoic triassic and Jurassic lias, oolite
- 77 Cretaceous
- 78 Tertiary, cenozoic
- 781 Eocene, oligocene
- 782 Miocene
- 783 Pliocene
- 79 Quaternary Postpliocene Glacial
- 791 Recent
- 8 **Structural geology**
- 81 Stratification
- 82 Curvature and contortion
- 83 Ripple marks and sun cracks
- 84 Joints Cleavage Polarity in rocks
- 85 Dip Outcrop Strike
- 86 Anticlinal Synclinal
- 87 Faults and folds Dislocations
- 88 Veins Dykes Necks Bosses
- 89
- .9 **Agents of geologic work**
- 91 Frost
- 92 Water
- 93 Atmosphere
- 94 Geochemistry
 Chemical changes heat See also note to 551
- 95 Animals
- 96 Coral reefs
- 97 Plants
- 98 Segregation and concretion
- 99 Other agents

552 Lithology Petrography Petrology

- .1 Igneous rocks
- 2 Volcanic rocks
- 21 Lavas Scoria
- 22 Volcanic ashes Volcanic tufa Tuff
- 23 Obsidian Pumice Pitchstone
- 24 Trachyte
- 25 Rhyolite
- 26 Andesite Dacite Phonolite
- 27 Felsites
- 28 Basalt
- 29 Other volcanic rocks
- 3 Plutonic rocks
- 31 Porphyry Porphyrite
- 32 Syenite
- 33 Granit
- 34 Diabase and gabbro
- 35 Dolerite
- 36 Diorite
- 37 Norite
- 38 Peridotite
- 39 Other Plutonic rocks
- .4 Metamorphic rocks
- 41 Granites and syenites
- 42 Gneiss
- 43 Schists
- 44 Slates Argillite Phyllite
- 45 Quartzite Novaculite Itacolumite
- 46 Marble Crystalline limestone
- 47 Serpentine
- 48 Chrysotilic rocks
- 49 Other metamorphic rocks
- 5 Sedimentary rocks
- 51 Sandstone Conglomerate Sand Gravel
- 52 Shale Clay Silt
- 53 Gypsum Salt
- 54 Limestone Marl Ooze
- 55 Dolomite
- 56 Oolite
- 57 Infusorial or diatomaceous earth
- 58 Glauconite Greensand
- 59 Other sedimentary rocks
- 6 Meteorites
- 7 Decay of rocks

- 552 8 **Microscopic petrography**
- 81 Determination of rock minerals
- 82 Rock structure
- 553 **Economic geology** See also 622 Mining engineering
- 1 **Ore deposits**
- 11 Formation and structure
- 12 Classification
- 13 Superficial placers
- 14 Stratified beds etc
- 15 Unstratified
- 16 Disseminated thru eruptiv rocks
- 17 Stockwerks Fahlbands Contacts
- 18 Chambers and pockets Impregnations
- 19 Mineral veins
- 2 **Carbon series**
- 21 Peat While the history of all other products goes in 553
- 22 Lignite and jet history of metals is more
- 23 Cannel coal Bituminous shale useful in 669 Metallurgy
- 24 Bituminous and semibituminous coals
- 25 Anthracite and grafitic anthracite
- 26 Grafite Plumbago
- 27 Asfalt and asfaltic coals Ozocerite
- 28 Petroleum Natural gas
- 29 Fossil gums and resins
- 3 **Ores of iron**
- 4 **Ores of metals other than iron**
- 41 Ores of gold
- 42 Ores of silver
- 43 Ores of copper
- 44 Ores of led
- 45 Ores of zinc and tin Mercury
- 46 Ores of manganese and chromium
- 47 Ores of antimony and arsenic
- 48 Ores of nickel and cobalt
- 49 Other metallic ores
- 5 **Bilding stones**
- 51 Marbles and limestones
- 52 Granits and syenites
- 53 Sandstones
- 54 Slates
- 55 Serpentine Soapstones
- 56 Porphyries
- 57 Trap
- 58 Tufa Peperino
- 59 Other bilding stones

- 553 6 **Earthy economic minerals**
 61 Fire clays Brick clays Potter s clays
 62 Sands
 63 Rock salt Gypsum
 64 Phosphates Apatite Guano See also 631 85
 65 Emery Corundum
 66 Heavy spar Sulfur
 67 Asbestos etc
 68 Limes and mineral cements
 69 Other earthy economic minerals
 7 **Mineral waters**

- 71 Alkali
 72 Salin
 73 Chalybeate ironbearing
 74 Sulfuric
 75 Calcic
 See also 551 23
 8 **Gems Ornamental stones**
 9 **Other economic minerals**

- 554 **Geology of Europe** 554 559 subdivided by countries like 940-999
 555 **Geology of Asia**
 556 **Geology of Africa**
 557 **Geology of North America**
 558 **Geology of South America**
 559 **Geology of Oceania Polar regions**

560 **Paleontology** Use form divisions as in 550 and divide geographically like 930-999 e.g. Paleontology of England 560 942 See also last paragraph of notes under 58

- 561 **Plants** 561 s subdivided like Botany 580
 562 **Invertebrates** 562 569 s subdivided like Zoology 592 599
 563 Protozoa Radiates
 564 Mollusks
 565 Articulates
 566 **Vertebrates**
 567 Fishes Batrachia
 568 Reptils Birds
 569 Mammals

570 Biology Archeology

570 1 Philosophy 2 Compenda 3 Dictionaries 4 Essays lectures etc.
 5 Periodicals 6 Societies 7 Study and teaching museums
 8 Collectiv works 9 History

571 Prehistoric archeology

For Customs, see 300 For Archeology of special countries see 913

- .1 Paleolithic, or early stone age
 - 11 Drift remains
 - 12 Cave men
 - 13 Remains of animals Shells
 - 14 Chert stones
 - 15 Flint flakes Arrow heads Knives, etc
 - 16 Other stone remains
 - 19 Other remains
- .2 Neolithic, or late stone age
 - 21 Stone quarries
 - 22
 - 23 Remains of animals
 - 24 Polished stones
 - 25 Sharp stones celts, tools, weapons
 - 26 Perforated stones spindles, net sinkers, pipes
 - 27 Hollowed stones mortars, cups, food vessels
 - 28 Other stone remains
 - 29 Other remains
- .3 Bronze age
 - 31 Ancient copper and tin mining
 - 34 Bronze remains
 - 35 Tools Weapons etc
 - 37 Cups Vessels
 - 39 Other remains
- .4 Iron age
- .5 Other remains
 - 51 Implements of wood
 - 52 Implements of bone
 - 53 Basket work
 - 54 Textile fabrics
 - 55 Pottery
 - 56 Glass
- .6 Prehistoric industries
- .7 Rudiments of art Ornaments
 - 71 Drawings
 - 72 Paint
 - 73 Sculptures
 - .74 Beads

- 571 8 Dwellings
- 81 Natural caves
 - 82 Earth houses Pit dwellings Weems
 - 83 Lake dwellings Crannoges
 - 84 Cliff dwellings
 - 85 Pueblos
 - 86 Tents as dwellings
 - 9 Mounds and monuments
 - 91 Mounds and mound builders
 - 92 Grave mounds
 - 93 Kitchen middens Shell banks
 - 94 Monoliths Cromlechs
 - 95 Circles Labyrinths
 - 96 Cairns
 - 97
 - 98
 - 99

572 Ethnology Anthropology

See also 136.4 Mental race characteristics

- 1 Unity of human race
- 2 Diversity of races
- 3 Migrations of men
- 4 Original home of man Eden, Atlantis, etc.
- 5
- 6
- 7 Savages races divided by practices
Class description of savages of special country in 914-919 e.g. Australian bush men 919.4
- 8 Races divided by language like 400
- 9 Races divided by countries like 930-999
Divide by countries where possible Use language divisions for groups like Semitic Aryan Teutonic English etc.

573 Natural history of man Somatology

- 1 Man's place in nature
- 2 Origin of man
- 3 Antiquity of man
- 4 Influence of climate and surroundings
- 5 Color in man
- 6 Anthropometry
- 7 Craniology
- 8 Dwarfs and giants
- 9 Monstrosities

See also 611.012 Teratology 613.91 Congenital defects 617.3 Deformities

- 574 Physiologic and structural biology
 Natural history
 Subdivided where wisht like 581 and 591 but clas phyogeny on 575 variation
 on 575 2 ecology on 575 3 abiogenesis on 576 1 cytoogy on 576 3
- 575 Evolution Phylogeny
 See also 213 Creat on 215 Religion and science 239 & Apologetics
- o1 Theory
- o16 Miscellaneous theories
- 2 Darwinism
- 3 Orthogenesis Determinate evolut on
- 4 Weismannism
- 5 Mutation theory
- 6 Lamarckism
- o7 Study and teaching
- o72 Experiment and reserch
- 5 Methods
- 52 Conserving method
- 53 Agricultural "
- 54 Horticultural method
- 56 Zootechnic "
- x Heredity Eugenics
 See also 613 9 Hygiene of offspring stirp culture For other relat ons
 see Heredity n Relativ ndex following Tables
- 11 General questions and laws
- 112 Blending inheritance
- 2 Galton s law
- 113 Alternativ inheritance
- 2 • Mendel s law
- 114 Mosaic inheritance
- 12 Inheritance of caracters
- 122 Normal hereditary units Genotypes
- 123 Inheritance of acqured caracters
 Permanen e of acqu ed caracters
- 124 Inheritance of sports
- 125 " " fluctuating variations Phenotypes
- 126 Heredity of special caracters
- 2 Factors of caracters 4 Polymorphic caracters
- 3 Sexual caracters

DECIMAL CLASSIFICATION

575	13	Breeding	Heredity	
	131	Theoretic and general questions		
	2	Effects of external influences		
	3	" " internal "		
	132	Outbreeding	Mongrelization	
		See also 575 282 Hybridization		
	133	In and in breeding	Self fertilization	
		Effects of consanguinity incest		
	134	Sterility		
	135	Xenia		
	136	Telegency		
	137	Atavism		
	138	Cytology of heredity and breeding		
	139	Other topics		
	15	Mechanic phenomena		
	16	Chemic "		
	17	Morphologic "		
	2	Variation		
		Divided like 581 15 but class selection on 575 4 5		
	3	Ecology	Environment	Bionomics
		Divided like 581 5 See also 136 2 Mental characteristics 573 4 Natural history of man		
	4	Adaptation	Adjustment	
	42	Factors of adjustment		
	422	Self adaptation		
	423	Natural selection	Survival of the fittest	
	424	Artificial	"	"
	43	Special results		
	432	Cross fertilization		
	433	Resistance to unfavorable environment		
	5	Sexual selection		
	6	Development		
	7	Degeneration	Regeneration	Extinction
	8	Origin of species		
	9	" " sexes		
		See also 574 36 Production and differentiation of sexes		
576		Origin and beginnings of life		
	1	Abiogenesis	Spontaneous generation	
	2	Protoplasm	Bioplasm	
	3	Cels	Cytology	
		Divided like 581 87		
	4	Beginnings of motion and sensation		
	5	Associations of cels and unicellular organisms		Cel colonies

Properties of living matter

- 1 **Chemical difference between organic and inorganic**
 See also 574.19 Biochemistry
- 2 **Life difference between dead and living matter**
 See also 612.013 Physiology
- 21 **Theoretic and general questions**
 Nature of life
- 212 **Mechanism**
- 213 **Vitalism**
- 214 **Physico-biologic conception of life**
 Structure necessary to life
- 22 **Living and dead matter**
- 23 **Molecular life**
 Life considered as a synthesis of molecular energies
- 24 **Relations between life and death**
- 3 **Difference between vital and physical phenomena**
- 4 **Conditions of life moisture, temperature**
 See also 575.3 Ecology
- 5 **Difference between plants and animals**
- 6 **Vital force**
- 7 **Death**
 See also 612.013
- 72 **Definitions Conditions Causes**
- 73 **Longevity and mortality of living organisms**
- 74 **Phenomena of decomposition among living organisms**
 Autolysis & putrefaction
- 75 **Types of death**
- 76 **Signs " "**
- 8 **Sex in nature**
 See also 575.0 Origin of sexes
- 81 **Theoretic and general questions**
 Nature of sex
- 82 **Sexes**
- 822 **Male**
- 823 **Female**
- 824 **Hermaphrodite**
- 825 **Neuter**
- 84 **Factors effecting sex**
 Sex inversion
- 841 **External factors**
- 842 **Internal "**
- 85 **Physiologic phenomena**
- 86 **Morphologic "**
- 88 **Determination of sex**
- 9 **Other topics**

- 578 **Microscopy** See also 535 82 Optics
- .1 Varieties of microscopes
 - .2 Optic parts
 - .3 Mechanic parts
 - .4 Accessory apparatus Management of microscope
 - 5 Illuminating apparatus
 - .6 Preparation and mounting of objects
 - .7 Special preparation and study of inorganic material
 - .8 " botanic material See 581 8 Histology
 - .9 " zoologic material " 591 8 "
- 579 **Collectors manuals**
- .1 Preparing skeletons
 - .2 Preservatives and hardening fluids
 - .3 Injections
 - .4 Taxidermy
 - .5 Mounting specimens
 - .6 Collecting
 - 611 Alluring; bait, light etc
 - 612 Hunting, nets, collecting bottle, etc.
 - 613 Killing
 - 614 Exchange Purchase
 - 615 Rearing
 - .616 Transporting
 - .7 Arrangement of specimens in museums
 - 71 Cabinets 72 Labels
 - .8 Preservation of specimens
 - .81 Museum pests 82 Pestifuges 83 Prevention of moisture 84 Re-
 - tention of colors
 - .9

580 Botany

For full list of form divisions see Table 2 after Relative index

- .1 Theory
- .14 Nomenclature Terminology Symbols Abbreviations
 - For dictionaries see §80.3
- 142 Etymology
- 143 Scientific
 - 2 Names of genera species etc
 - 3 Teknical terms organs, functions, processes etc
- .144 Popular
- 148 Systems of notation symbols, abbreviations etc
- 7 Study and teaching
- 72 Reserch and experimentation
- .722 Laboratories
- .723 Field work
- .725 Methods
 - 2 Under glas
 - 22 Comparison of conditions under glas and in life
 - 3 In life
 - 32 Comparison of artificial and natural conditions
 - 4 Methods of culture
 - 42 Sterilization of cultures
 - 5 Biometric and statistical methods
- 9 History of botany
 - Divided like 930-990. For geographic distribution of plants see §81.9

581 Physiologic and structural botany

- .1 Physiology
- .11 Circulation Transport
 - Absorption and movement of liquid substances sap
- .111 Theoretic and general questions
 - Nature of circulation
- 112 Absorption of liquids
- .113 Circulation of "
 - Rise of sap
- .114 Translocation and distribution of foods
- 115 Methods
 - 1 Adhesion Cohesion
 - 2 Capillarity
 - 3 Imbibition
 - 4 Diffusion
 - 5 Osmosis
 - 6 Suction
 - 62 Leaf suction Negativ tension
 - 63 Root suction Root pressure
 - 7 Stem action
 - 8 Action of living cels
 - 9 Other

581 12	Respiration	
	Katabolism	see also 581 132 Digestion 581 14 Excretion 581 193 Fermentation
121	Theoretic and general questions	
	Nature of respiration.	Absorption and movement of gases
2	Aeration and aerating system	
22	Absorption of gases	
23	Circulation " "	
3	Oxidation	
32	Complete	
33	Incomplete	
34	Production of carbon dioxide	
35	" " light phosphorescence luminescence	
36	" " heat Temperature attained	
37	Other products of oxidation	
4	Respiratory ratio	
5	Influence of external conditions	
122	Dermal respiration	
124	Intercellular respiration	
126	Tracheal respiration	
128	Intramolecular or anaerobic respiration	
129	Exhalation and transpiration	
	Evaporation guttation	See also 581 14 Secretion and excretion
13	Nutrition Metabolism	
131	Acquisition of food	
132	Digestion " "	
133	Assimilation and storage of food	Anabolism
1	Theoretic and general questions	
	Nature of assimilation	
2	Assimilation by autotrophic plants	
3	" " allotrophic or heterotrophic plants	
4	Processes of assimilation	
42	Photosynthesis	
	Agents chlorophyll carotenoids bacteriopurpurin	
43	Chemosynthesis	
44	Nitrification	
45	Proteid synthesis	

581 1335	Substances assimilated
52	Carbon
53	Nitrogen
54	Mineral substances
542	Water
543	Sulfur
544	Phosphorus
545	Iron
546	Mineral salts
	2 Calcium salts 3 Potassium salts 4 Sodium salts
55	Organic foods
552	Vegetable
553	Animal
6	Reassimilation of degenerate parts
7	Products of assimilation
72	Protoplasm
73	Plastic products
8	Food storage Reservoirs
82	Formation of reservoirs
83	Dissolving " "
84	Distribution
85	Types of reservoirs
852	Water
853	Starchy or amylaceous
854	Cellulose
855	Oil or oleaginous
856	Albuminoid and nitrogenous
9	Other topics
134	Growth
1	Theoretic and general questions
12	Rate and periodicity
	Rest periods
13	Influence of tissue tension
14	Polarity Internal influences Correlations
15	Influence of environment
152	Meteorologic conditions
	Divided like 551.5
153	Light
154	Electricity
155	Mechanic forces
2	Primary growth
22	Growing regions Vegetative points
23	Methods of growth
232	By cell enlargement and lengthening
2	Protoplasmic growth
3	Growth of cell wall, of enveloping membrane
233	By cell division multiplication
3	Secondary growth
32	Normal growth with single annual cambium layer
322	Growth of central cylinder
323	" " bark or surface
33	Abnormal growth
	See also 581.22 Teratology

DECIMAL CLASSIFICATION

581	135	Development	Ontogeny	
		General and postembryonic for embryonic development see 581 3		
	1	Theoretic and general questions		
		Nature of development		
	2	Differentiation and development of members		
		See also 581 4 Morphology 581 7 Organography Divided like 581 4		
	3	Periods of development		
	32	Youth		
	33	Maturity		
	34	Rejuvenescence		
	35	Senescence	Degeneration	Decline
	352	Exfoliation		
		Scaling or peeling off		
	353	Falling of leaves		
	354	" " branches		
	355	Cicatrization		
	36	Death		
	136	Repair of waste		
	137	Production of organic material		
	138	Conditions of nutritive activity		
		Water culture media etc		
	139	Longevity	Vitality	
	14	Secretion	Excretion	
	141	Mucous	Sebaceous	Laticiferous
		2 Mucous	3 Sebaceous	4 Laticiferous:
			fats etc	latex, gums etc
	142	Sericeous		
	143	Digestive		
	144	Protective and attractive		
		Odoriferous sweet luminous electric etc		
	2	Odoriferous		
		Essences perfumes resins etc		
	3	Sweet-tasting		
		Nectar honey etc		
	4	Pigmentary		
	42	Green coloring matter	chlorophyll	
	43	Yellow " "	xanthophyll	
	44	Red " "	carotinoids	
	45	Blue " "	anthocyanins	
	46	Purple " "	bacteriopurpurin	
	145	Poisonous	Gall formation	
		See also 581 27 Galls		
	146	Spermatophytic		
	149	Other		
		2 Urinary	4 Crystalline	5 Inorganic
		Urea etc		Amorphous inorganic products etc

581.15

Variation

See also 575 2 Evolution

.151

Theoretic and general questions

Nature of variation

- 2 Physiologic, embryologic and cytologic aspects
- 22 Production of variations
- 23 Variation and development
- 232 Variation at special developmental stages
- 233 " and recapitulation
- 24 Correlated variation
- 242 Immediate or physiologic correlation
- 243 Mediate or biometric "
- 2 Homotypy
- 25 Variation and germ plasm
- 252 Corresponding variation of chromosomes and soma
- 26 Variation and heredity
- See also 575 1 Evolution
- 3 Variation of particular characters
- 31 General laws
- 311 Varietal vs specific characters
- 312 New vs old characters
- 313 Secondary sexual characters
- 314 Variation in characters of wideranging species
- 32 Secular variation and periodicity
- 4 Variation and selection
- 42 Natural selection Adjustment
- 43 Artificial "
- 45 Sexual "
- 9 Polymorphic variation

.152

Environmental variation

Modification

Extrinsic causes of variation

- 2 Meteorologic influences
- Divided like 551 5
- 3 Effect of light
- 4 " " electricity
- 5 " " gravity and other mekanic forces
- 6 Geographic variation
- 7 Effect of nutritiv agents
- 72 Food
- 73 Water
- 74 Chemic agents
- 75 Solutions

.153

Heterofagic

.154

Polygoneutic

.155

Mimetic

.156

Sexual

Sexual dimorphism etc

.157

Colorational

.158

Hybrids Grafts

Intrinsic causes of variation

- 2 Hybrids 3 Grafts See also 581 16582 Propagation

.159

Mutations Abnormalities

Monstrosities. See also 581 22 Teratology

DECIMAL CLASIFICATION

581 16	Generation	Reproduction	
161	Abiogenesis	Spontaneous generation	
162	Parthenogenesis	Apogamy	Apospory Neuters
163	Metagenesis	Alternation of generations	
165	Vegetativ, asexual	nonsexual reproduction	
1	Theoretic and general questions		
		Nature of vegetativ reproduction	
2	Fission	Fragmentation	
22	Strobilation		
23	Gemmation	Unicellular budding	
3	Brood organs	bulbils, gemmae, gonidia, soredia etc	
4	Bulbs	Tubers	Winterbuds (as of Potamogeton) etc
5	Shoots, offsets, propagules, runners etc		
6	Shedding of hormogons, branches or other parts		
7	Regeneration		
8	Artificial propagation		
	82	Grafts	83 Slips or cuttings 84 Layers
9	Other		
166	Sexual reproduction		
	Nuclear fusion		
1	Theoretic and general questions		
		Nature of sexual reproduction	formation of sex cells etc see also
	581 36	Production of sexes	
2	Fertilization	Fecundation	Conjugation
22	Pollination		
23	Self vs cross fertilization		
24	" fertilization		
242	Cleistogamy		
25	Cross fertilization		
252	Dichogamy		
253	Heterogamy		
	2	Dimorphic	3 Trimorphic
254	Dichinism		
	2	Monoecious	3 Dioecious 4 Polygamous
256	Adaptation to special carrying agents		
	2	Forms of adaptation	6 Zoophily
		Traps, vexillary disposition etc	Divided like 590 but class adaptation for insect carriers on
	3	Hydrophily	581 1662567
	4	Anemophily	
			7 Entomophily
			Divided like 595 7
26	Artificial control of fertilization		
167	Hermaphroditism		
168	Viviparity		
169	Superfertilation	Superfecundation	Superfertilization
		Double fertilization triple fusion, twinning	

- 581 17 Histogenesis
- .171 Development of sperm cells
- .172 " " germ cells Micropyle
- .179 Reparation of wounds Regeneration of parts
- .18 Irritability and movement
- .181 Theoretic and general questions
Nature of irritability perception and transmission of stimuli
- .182 Physical or mekanic movements
- 2 Stability 6 Hygroscopic movements
- 3 Elasticity 62 Movements due to cohesion of water content
- 4 Turgidity Dehiscence of anthers, projection of sporangia, etc
- 5 Tensions 63 Movements due to swelling or distention
- .183 Paratonic movements
- 1 General irritations or stimuli
- 2 Tropisms
Movements dependent on direction of stimulus
- 22 Geotropism
- 23 Water and moisture tropisms Chemic tropisms
- 232 Rheotropism
- 233 Hydrotropism
- 234 Osmotropism
- 235 Chemotropism
- 2 Aerotropism
- 24 Light and heat tropisms
- 242 Phototropism Heliotropism
- 243 Radiotropism
- 244 Thermotropism
- 25 Electrotropism Galvanotropism
- 26 Haptotropism Stereotropism Thigmotropism
Of tendrils, sensitiv plants, etc
- 27 Traumatropism
- 3 Nastic movements
Movements dependent on intensity of stimulus independently of direction
- 32 Nyctinastic Nyctitropic Photeolic Photonastic
Sleep movements, period c sleep, etc
- 33 Seismonastic
Movements due to shock (as in Mimosa Biophytum etc)
- 34 Thermonastic
- 4 Taxes Locomotion
Divided like 581 1832, see also 581 1866 Autonomic locomotion
- 184 Turgor movements
Gyrations etc (as of traps trigger hairs etc)

DECIMAL CLASIFICATION

581 185	Autonomic movements	
	2 Of variation	6 Projections due to motions of variation and nutation
	3 " nutation and circumnutation	Projection of germs and spores thru such movements
	4 Epinasty	
	5 Hyponasty	
186	Cytoplasmic, protoplasmic movements	
2	Streaming	
3	Rotation	
4	Movement of plastids	
6	Autonomic locomotion	
	See also 581 1834 Paratonic locomotion	
62	Swimming	
	622 Ciliary	623 Flagellary
63	Rampant	624 Excretory
	Creeping	
	Amoeboid	
19	Physiologic chemistry	
192	General chemico composition	
	Plant constituents	
	2 Composition of ash	7 Stimulants
	3 Organic composition	8 Mutual influences of constituents
	4 Necessary elements	Protective influence of salts
	5 Superfluous "	9 Other topics
	6 Noxious and toxic elements	
	Poisons	
193	Ferments and fermentation	Enzymes and catalysis
	Zymolysis	
1	Theoretic and general questions	
	Energetics etc. see also 581 12 Respiration	
2	Processes and products	
3	Influences of external factors	
4	Special ferments	
41	Oxidants	Oxidases
42	Hydrolytic	Reducing ferments
43	Proteolytic	
44	Lipolytic and saponifying	
442	Lipolytic	
443	Saponifying	
45	Amylolytic and sacroclastic	
46	Glycolytic	
461	Alcoholic	
9	Antiferments	Antienzymes
194	Hormones	Vitamins
196	Internal reactions	
197	Special products	
	Divided like 547 Organico chemistry	

- 581 2 Pathology
 See also 632 Agr culture
- ~1 Nonparasitic or physiologic diseases
 Diseases due to malnutrition etc
- 22 Teratology Malformation
 See also 581 159 Abnormal fusions
- 221 Union of organs Abnormal fusions
- 2 Cohesion
 Union of similar parts
- 3 Adhesion
 Union of dissimilar parts
- 7 Synophyty
 Union of embryos
- 8 Union of special organs or parts
 Divided like 581.4
- 222 Division Separation Adesmy
 Abnormal fusions
- 2 Division of similar organs or parts
- 3 " " dissimilar organs or parts normally attached
- 7 " " embryo
- 8 " " special organs or parts
 Divided like 581.4
- 223 Displacement Ectopy
 Abnormal position of organs
- 2 Homotopy
- 3 Heterotaxy
- 7 Displacement of embryo
- 8 " " special organs or parts
 Divided like 581.4
- 224 Metachromism and metamorfism
- 2 Metachromism
 Abnormal changes of color
- 27 Of embryo
- 28 " special organs or parts
 Divided like 581.4
- 3 Metamorfism
 Change of one organ or part into another For normal metamorfism see 581.34
- 37 Of embryo
- 38 " special organs or parts
 Divided like 581.4
- ~25 Changes of number
- 8 Of special organs or parts
 Divided like 581.4
- 226 Deformations Heteromorfy
- 2 Fasciation 7 Deformation of embryo
- 3 Enations 8 " " special organs or parts
 Divided like 581.4
- 4 Torsion
- 227 Stasimorfy Atrophy Loss of function Abortion
 Suppression
- 7 Of embryo 8 Of special organs or parts
 Divided like 581.4

DECIMAL CLASSIFICATION

- 581 228 **Hypertrophy**
 Abnormal enlargement of organs or parts
 7 Of embryo 8 Of special organs or parts
 Divided like 581 4
- 229 **Other abnormalities**
- 23 **Parasitic and infectious diseases**
 For galls see 581 27 see also 581 55763 Parasitism 581 693 Parasitic plants
- 232 **Diseases due to parasitic plants**
- 2 **Bacterial diseases**
 Divided like 589 95
- 3 **Algal diseases**
 Divided like 589 3-6
- 4 **Smuts Bunts**
- 5 **Rusts**
- 6 **Other fungus diseases**
 Class here general works on fungus diseases Divided like 589 2
- 7 **Other thallophytic diseases**
 Class here general works on thallophytic diseases Divided like 589
- 8 **Diseases due to other parasitic plants**
 Divided like 580
- 233 **Diseases due to parasitic animals**
- 3 **Protozoans**
 Divided like 593 1
- 5 **Worms**
 Divided like 595 1
- 7 **Insects**
 Divided like 595 7
- 9 **Diseases due to other parasitic animals**
 Divided like 590
- 234 **Virus diseases**
- 24 **Injuries**
 Divided like 632 1
- 25 **Anatomy of diseased and injured tissues**
- 26 **Cytology** " " " "
- 27 **Galls**
- 271 **Theoretic and general questions**
 Nature of gall producing stimuli etc
- 272 **Fungus galls Mycodomatia Mycocecidia**
 Divided like 589 2
- 273 **Galls due to other plant agencies**
 Class here general works on galls due to plant agencies Divided like 580
- 274 **Insect galls**
 Divided like 595 7
- 275 **Galls due to other animal agencies**
 Class here general works on galls due to animal agencies Divided like 590
- 276 **Regions affected**
 Divided like 581 4
- 277 **Anatomic study of galls**
- 28 **Means of protection against diseases**
 Divided like 632 9
- 29 **Other topics**

- 581 3 **Embryology Phylogeny**
- 32 **Sporogenesis Gametogenesis**
- 322 **Microsporogenesis Spermatogenesis**
- 323 **Macrosporogenesis Oogenesis**
- 324 **Spore sacs**
 2 Ovules 4 Sporogonia Sporangia
 3 Thecae 5 Spore mother cels
- 325 **Embryo sacs and spores**
 2 Embryo sacs
 3 Pollen grains
 4 Spores
 42 Asexual spores 43 Sexual spores
 Gonidia zoospores Zygospores oospores carpospores
- 326 **Gametes**
 2 Isogametes 4 Coenogametes 6 Spermatozoids
 3 Anisogametes 5 Eg cels
- 327 **Seed**
 For seed morfology see 581.467
- 33 **Development of embryo**
- 331 **Theoretic and general questions**
 Division of fus on nucleus, etc
- 332 **Anatomy of embryo**
 2 Embryonic tissues 7 Cotyledon 8 Radicle
 5 Stem 74 Plumule 9 Suspensor
- 333 **Germination**
- 334 **Seedling**
 1 **Theoretic and general questions**
 Significance of juvenil stages etc
 5 **Primary shoot or stem**
 Hypocotyl
 Epicotyl
 7 **Primary leaves**
 8 " root
- 34 **Metamorfosis**
 For abnormal metamorfism see 581 2243
- 35 **Hypermetamorfosis**
- 36 **Production and differentiation of sexes**
 See also 575 9 Or g n of sexes 581 1661 Format ion of sex cels
- 38 **Phylogeny**
 See also 575 Evolution

DECIMAL CLASSIFICATION

581 4	Morphology	Comparative anatomy	Homologies
41	Circulatory organs	Vascular system	
413	Fibrovascular bundles		
	2 Xylem	Tracheae	4 Phloem Bast Sieve tubes
	3 Cambium		5 Leaf traces
414	Veins	Venation	
42	Respiratory organs		
421	Stomata	Lenticels	
	2 Stomata	3 Lenticels	
	22 Guard cells		
423	Aerenchyma		
424	Intercellular spaces		
43	Nutritory organs		
	Mesophyll palisade cells, etc		
44	Secretory and excretory organs		
442	Laticiferous vessels		
446	Secretory glands and cells		
	Nectaries epidermal glands etc		
46	Generatory organs		
462	Cryptogamic generatory organs		
	2 Anthidia	3 Archegonia	Oogonia 4 Sporophylls
463	Flowers		
	As generatory organs for flowering plants see 582 13		
1	Theoretic and general questions		
12	Origin of flower		
13	Differentiation		
2	Gross anatomy		
22	Peduncle		
23	Receptacle		
24	Perianth		
242	Calyx	Sepals	
243	Corolla		
	2 Petals	3 Ligules	
	Vexilla banners or standards		
244	Corona		
25	Essential organs		
252	Stamens	Androecium	
	Filament anther pollen sac		
253	Pistils	Carpels	Gynoecium
	Ovary style stigma		
4	Estivation		
5	Inflorescence		
6	Modifications of flower parts		
464	Fruit		
	See also 634 Agriculture		
467	Seed		
	For seed format on see 581 327		
2	Anatomy		
	22 Nucellus	25 Micropyle	
	23 Endosperm	See also 581 172 Development of germ cells	
	24 Seed coats		

581	47	Motory organs	Integumentary system
473		Motory organs	
		2 Cilia	3 Flagella
477		Integumentary system	
		Cuticle epidermis, cortex, bark	
478		Hairs, emergences etc	
1		Hairs, trichomes, bristles, tentacles	
		Piliferous layers root hairs, etc	
2		Emergences, prickles, papillae, warts etc	
48		Nervous system	
49		Regional anatomy	
492		Thalloid structures	
495		Stems	
1		Theoretic and general questions	
12		Origin of stem	
13		Differentiation	
2		Gross anatomy	
		22 Collar	24 Internodes
		23 Nodes	25 Terminal bud
3		Storage and supporting regions	
		32 Pith	34 Bundle sheath
		33 Medullary rays	35 Mekanie tissues
5		Branches and branching	
6		Modifications	
		62 Aerial stems	03 Underground stems
		Cladodes or cladophylls phylloclades thorns stem tendrils filaments haptera etc	Rhizomes bulbs corms tubercles etc
		622 Climbing stems	
497		Leaves Fronds Phyllomes	
1		Theoretic and general questions	
		12 Origin of leaf	13 Differentiation
2		Gross anatomy	
		22 Blade Lamina	25 Base of leaf
		23 Petiole	26 Stipules Stipels Ocreae
		24 Cicatrix Leaf scar	Ligules
3		Storage and supporting regions	
4		Leaf buds Vernation	
5		Phyllotaxy Leaf arrangement	
6		Modifications	
		Spines, phyllodes leaf tendrils, bracts involucre etc	
498		Roots	
1		Theoretic and general questions	
		12 Origin of root	13 Differentiation
2		Gross anatomy	
		Root cap etc	
3		Storage and supporting regions	
5		Secondary roots Root branching	
6		Modifications	
		Aerial and adventitious roots, root tendrils root buds, haustoria rhizoids etc	

DECIMAL CLASSIFICATION

581.5	Habits	Behavior	Ecology	Bionomics
	See also 581.15 Variation			
51	Instinct			
52	Environment	Abode		
.522	Individual ecology	Autecology		
	Adaptation and response in general			
2	Effect of environment on individual			
	For climate and seasons see 581.54			
22	Soil	Edaphic factors		
23	Light			
24	Electricity	Magnetism		
25	Gravity and other mechanic factors			
26	Smoke			
27	Fluid substances			
	For food see 581.53			
272	Gases			
	2	Oxygen	3	Carbon dioxide
			4	Noxious gases
273	Water			
274	Chemical and poisonous solutions			
275	Osmotic solutions			
3	Effect of individual on environment			
32	Prevention of weathering and erosion			
33	Sand binding			
34	Deposition of silt and plant remains			
35	Soil enrichment	Accumulation of humus		
36	" exhaustion			
37	Modification of atmospheric conditions			
4	Adjustment	Acclimatization		
5	Ecologic anatomy			
	Correlation of structure with environment, advantageous or adaptive structure			
52	Ecologic anatomy of organs			
	Divided like 581.4			
53	Ecologic anatomy of tissues			
	Divided like 581.82			
54	Structural correlations with special environmental factors			
	Divided like 581.522			
55	Structural correlations with special climatic factors			
	Divided like 551.5			
6	Migration	Dissemination		
	See also 581.166256 Reproduction			
61	Theoretic and general questions			
	Centers of distribution migration routes, etc			
62	Dissemination by wind			
63	"	" water		
632	"	" glaciers		
64	"	" gravity		
65	"	" propulsion		
66	"	" offshoots, runners etc		
67	"	" animals		
	Divided like 590			
68	Dissemination by man			
69	Other			

- 581 526 Formational ecology
- 1 General physiognomy and aspect
 - 2 Factors determining occurrence and extent of formations
 - 3 Hydric formations Hydrophytes
 - 32 Aquatic formations
 - 322 Running water
 - 323 Benthos
 - Flora attacht to bottom of sea streams etc
 - 2 Freshwater * 3 Saltwater 4 Brackish water Foul water
 - 324 Pleuston
 - Submerged free swimming or floating freshwater flora found specially in quiet water under shelving banks
 - 325 Plankton Pelagic botany
 - Free swimming or floating surface flora
 - 2 Freshwater 3 Saltwater 4 Brackish water Foul water
 - 326 Hot water
 - 33 Freshwater swamp and low moor formations
 - For salt marsh formations see 581 526522
 - 34 Heath formations
 - 35 Bog and high moor formations
 - 4 Mesic formations Mesophytes
 - 42 Forest formations
 - 422 Rain forest formations
 - 2 Tropical 3 Temperate
 - 423 Monsoon forest formations
 - 424 Savannah woodland "
 - 425 Deciduous or hardwood forest formations
 - 426 Evergreen forest formations
 - 2 Conifer 3 Krummholz Elfin wood 4 Sclerophyl
 - 427 Thorny forest formations
 - 43 Vines Climbing plants Lianas
 - 44 Epiphytes
 - 45 Prairie formations
 - 5 Xeric formations Xerophytes
 - 52 Halic formations Halophytes
 - 522 Salt marsh formations
 - 523 Alkali land "
 - 53 Desert and semidesert formations
 - 532 Chaparral formations
 - 533 Tundra or cold desert formations
 - 534 Arid or dry desert "
 - 535 Strand formations
 - 536 Dune "
 - See also 581 52432373 Dune succession
 - 54 Rock surface formations
 - 55 Snow and ice "

527

Floristics Floral regions

For floras of special geographic regions see 581 9

- 1 Theoretic and general questions
- 2 Floral regions and their delimitation
- 3 Cosmopolitanism
- 4 Endemism
- 5 Barriers
- 6 Polyphylexis
- 7 Adventiv plants
- 8 Statistical floristics
- 9 Other topics

- 581 53 Food Nutritiv substances
 See also 581 13 Nutrition
- 532 Inorganic
- 533 Organic
 For paras tism see 581 55763
- 2 Of vegetable origin
- 3 " animal "
- 32 Carnivorous and insectivorous plants
- 4 Saprophytism Saprophytes
- 54 Climatic conditions Seasons
- 542 Effect of climatic conditions
- | | |
|-------------------------------|-----------------------|
| 1 Winds | 4 Barometric pressure |
| 2 Temperature | 5 Storms |
| 22 Cardinal points | 6 Cosmic influences |
| 23 Harmonic optimum etc | 7 Rainfall |
| 24 Freezing Winter killing | 8 Dryness |
| 25 Temperature inversions etc | 9 Other |
| 3 Altitude | |
- 543 Seasonal habits Phenology
- | | |
|----------|---|
| 2 Spring | 6 Periods of quiescence, dormancy, sus- |
| 3 Summer | pended animation |
| 4 Autum | H ibernation encystment etc |
| 5 Winter | |
- 55 Sociability Plant associations and associes
- 552 Consociations Consocies
 Dom nant groups w th n an associat on
- 553 Societies Socies Clans
 Subdominant groups within an associat on
- 554 Colonies
 Small groups on otherw ze bare areas
- 555 Climax and seral communities
- 2 Climax communities
- 22 Edaphic
- 3 Seral communities
- 557 Symbiosis Consortism
- 2 Mutualstic
- | | | |
|-------------------|---------------|--------------|
| 22 Commensal sm | Mutualism | Messmatism |
| 23 Prototrophy | | |
| 24 Mycorrhiza | | |
| 25 Myrmecophilism | Myrmecophytes | Acarophilism |
- 3 Conjunctiv
- 32 Individualism
- 33 Helotism
- 4 Contingent
- 42 Nutricism
- 5 Disjunctiv
- 52 Metabiosis
- 6 Antagonistic Antipathetic
- 62 Syntrophism
- 63 Parasitism
- See also 581 23 Parasitic diseases, 581.693 Parasitic plants

DECIMAL CLASSIFICATION

- 581 56 Breeding habits
- 57 Means of protection and attraction
 - Adaptations for self preservation
- 572 Against mechanic forces
 - 2 Solidity of organs
 - 3 Attachment of organs
 - 4 Sensitivity
 - Sensitive plants
- 573 Against plants and animals
 - For symbols of protection see 581 557
 - 2 Anatomic means
 - 5 Electric means
 - Spines etc
 - 4 Chemic means
 - 7 Deceptive means
 - Mimicry
 - Secretions rapheles etc
 - Protective resemblance
- 574 Means of attraction Fascination
- 6 Economic botany Applied botany
 - See also 630 Agr culture
- 61 Usefulness
- 62 In nature
- 63 As food and medicine
- 632 Food for man
- 633 Fodder plants and products
- 634 Medicinal plants
 - Divide like 615 3
- 8 Drug adulterants
 - See also 614 35 Adulteration of drugs
- 64 In chemistry and manufactures
- 642 Fiber plants and fibers
 - Divide like 633 5
- 643 Wood and wood products
 - Divide like 634 98 Do not class here products specifically provided for under other headings e.g. Food products 581 63 Tanning materials 581 644 etc
- 644 Tanning materials
- 645 Oils
- 646 Waxes
- 647 Bleaching and dyeing materials
 - Divide like 667
- 643 Gums, resins, essences etc
 - Divide like 668
- 647 Other useful plants
- 65 Noxiousness Weeds
 - See also 632 5 Parasitoid juron plants
- 66 Offensive plants
- 67 Plants causing diseases
- 68 Injuring plant and animal products and inorganic substances
- 69 Injuring living plants and animals
- 692 Poisonous plants
- 693 Parasitic "
 - See also 581 23 Parasitic diseases 581 557 63 Parasitism

- 581.7 **Organography** **Descriptive anatomy**
 Divided like 581.4
- .8 **Histology** **Cytology**
 See also 578.8 Microscopic botany
- 81 **Theoretic and general questions**
- .811 **Origin and nature**
- 812 **Formation**
- 813 **Modification**
- 814 **Growth**
 Cambium activity See also 581.134 Nutrition
- 82 **Kinds of tissues**
 See also 581.4 Morphology
- 821 **Absorptive and conductive tissues** **Prosenchyma**
- 822 **Aerative tissues**
- 823 **Synthetic** **Chlorenchyma**
- 824 **Secretive and excretive tissues** **Glandular tissues**
- 825 **Water storage tissues** **Aqueous tissues**
- 827 **Fundamental and mechanic tissues**
- 2 **Fundamental or ground tissues** **Parenchyma**
- 3 **Protective and mechanic or sustaining tissues**
- 32 **Collenchyma**
- 33 **Sclerenchyma**
- 84 **Histologic structure of organs**
 Divided like 581.4
- 87 **Cytology** **Cell physiology**
 For general cytology see 576.3
- 871 **Theoretic and general questions**
- 872 **General cell structure and contents**
- 873 **Protoplasmic contents**
- 2 **Nucleus**
- 22 **Linin network** 25 **Spiremes**
- 23 **Chromosomes** **Chromatin** 26 **Nuclear membrane**
- 24 **Nucleolus**
- 3 **Plastids**
- 32 **Chloroplasts** 33 **Chromoplasts** 34 **Leucoplasts**
- 4 **Cytoplasm**
- 42 **Trophoplasm**
- 43 **Kinoplasm**
- 432 **Centrosomes** **Centrospheres**
- 433 **Asters**
- 434 **Blepharoplasts**
- 46 **Plasma membrane**

DECIMAL CLASSIFICATION

581 874	Nonprotoplasmic contents	Cel sap
	2 Food material aleurone grams, etc	4 Vacuoles
	3 Pigments	8 Waste products
875	Cel wall	
876	" activities	
	See also 581 186 Protoplasmic movements	
2	Cel reproduction	
	See also 581 465 Vegetat v generat on	
22	Direct nuclear division	Armitosis
23	Indirect " "	Mitosis Karyokinesis
231	Theoretic and general questions	
	Dynamics of m tosis	
232	Prophase	
233	Metaphase	
234	Anaphase	Reduction division
	Meiosis chromosome reduction synapsis	
235	Telophase	
238	Artificial mitosis	
	Mekanic or phys cal im tations	
24	Segmentation of protoplasm	
242	Cleavage by constriction or by furrows	
243	" " cel plates	
244	Free cel formation	
3	Cel unions and nuclear fusions	
	See also 581 1662 Fert'lizat on	
5	Cel degeneration and deth	
	See also 581 13535 Degeneration 581 13536 Deth	
7	Cel activities at critical ontogenetic periods	
	See also 581 16 Generation 581 3 Embryology	
.877	Specialized plant cels	
	For reproductiv cels see 581 16 Generat on 581 3 Embryology	
2	Coenocytes	
.878	Comparativ cel morfology and physiology	
879	Other topics	

581.9 Geographic botany Geographic distribution of plants

See also 581.527 Floristics

This Geographic classification is to be used only for general works and cross references. 'Flora of North America' is 581.97, but North American cryptogams' is 586 with a reference from 581.97 but North American phanerogams go with 581.97 because it so completely covers the subject. General works covering both Phanerogama and Cryptogama are put under 580 as books covering Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil plants 561 note that one more figure must be used than for fossil animals. The Zoology numbers are already given in the 3d place in Paleontology, e.g. 592 Invertebrates 562 Fossil invertebrates, and so on to 599 Mammals, and 560 Fossil mammals. But in Fossil plants 561, all 8 sections are grouped together and the section number must be repeated. Fossil phanerogams are 561.2 not 562, which is assigned to Invertebrate zoology as more important, Lichens are 561.91 etc. In the same way the Fossil flora of North America is 561.197 i.e. the first 2 Botany figures 58 are changed to 561 to give the corresponding Fossil botany number, while in Zoology the only change is from 59 to 56 for first 2 figures except in 591 which can not change to 561, which is assigned to Botany. The Fossil fauna of North America must therefore go among general works under 560.97.

.91 Insular floras

Geographic distribution Divided like 930-999

.92 Aquatic flora Marine flora

Geographic distribution. See 581.52632 for general discussions of aquatic plants where the geographic feature is of distinctly minor importance.

Class here works on aquatic flora in general when the geographic element is prominent, also works on marine flora divided like 551.46 and .47 e.g. Marine flora of Pacific ocean 581.925 but with Antarctic ocean included with Arctic on 581.928.

929 Freshwater flora Divided like 930-999

.93-.99 By country Divided like 930-999

Based on Bentham & Hooker's *Genera plantarum* revised and expanded in 1928 in accordance with best German, English and American authorities thereby bringing tables up to date and providing (without seriously disturbing other work) for classifying material written by different authorities with varying ideas as represented by looks and articles, both old and new which will be found in libraries and to a still greater extent in bibliographic collections

Authorities consulted

- Bessey C E & E A. Essentials of college botany 1914
 Britton N L. Manual of the flora of the northern states and Canada 1901
 Clute W N. Ferns of North America north of Mexico 1928
 Encyclopaedia Britannica
 Engler A & Prantl K. Syllabus der pflanzenfamilien 1924
 Prantl K. Die natürlichen pflanzenfamilien 1887 1909
 2 ed. 1924-
 Himmelfarb M. Handbuch der paläobotanik 1927
 Hutchinson J. Families of flowering plants 1 Dicotyledons 1926
 Rendle A B. Classification of flowering plants 1904 25 2v
 Standard dictionary
 Swingle D B. Textbook of systematic botany 1928
 Webster N. New international dictionary
 West G S. Treatise on the British freshwater algae New and revised edition
 F E Fritsch 1927

582 Phanerogamia Embryophyta siphonogama Spermatophyta Seed plants

For general works class works relating to a special order family genus species etc under appropriate division of 583-585 See also 634 9 Forestry. 715 2 Trees

.1 General groupings

.11 By life duration

.112 Annuals

.113 Biennials

.114 Perennials

.12 Herbaceous plants

For grasses see 584 9

.13 Flowering plants

Wild flowers. Class here general works on wild flowering plants even when including trees and shrubs as well as herbaceous plants. Class wild flowering plants of a special locality in 581 93-99

.14 Other herbaceous plants

- | | |
|---------------------|-------------------|
| 142 Succulent herbs | 145 Mat herbs |
| 143 Carpet herbs | 146 Cushion herbs |
| 144 Rosette " | 147 Dush " |

.15 Woody plants

.16 Trees

.17 Shrubs

- | | |
|------------|-----------------|
| 172 Bushes | 173 Half shrubs |
|------------|-----------------|

.18 Woody vines

.19 Other

Woody succulents

.2-9

See in Appendix following Relative index table for Systematic botany from Universal Decimal Classification which may be used as substitute for D. C. 582-589

- 583-584 Angiospermae Anthophyta Flowering plants
- 583 Dicotyledones Dicotyledonae Dicotyledoneae
- .I Archichlamydeae Polypetalae
- See also 583 9 Apetalae
Axiflorae-apopetalae-polycarpellatae Calyciflorae-apopetalae Chori-
petalae Dialypetalae
Archichlamydeae includes Polypetalae and Apetalae (583 9)
- 583 11- 255 Axiflorae-apopetalae-polycarpellatae
- 583 11- 193 Thalamiflorae
- .II Ranales Ranunculales
- Polycarpicae
See also the following included by Engler & Gilg under Ranales
583 931 Lauraceae, 583 9312 Hernandiaceae
- .III Ranunculaceae Crowfoot family
- Clas here Ranunculineae given by Engler & Gilg as a sub-
order including Ranunculaceae Menispermaceae (583 116)
Berberidaceae (583 117) and Lardizabalaceae (583 1172)
- .III2 Dilleniaceae Rough leaf tree family
- Clas here Dilleniales given by Hutchinson as an order includ-
ing Dilleniaceae and Crossosomataceae (583 16) See also
583 16 The neae
- .III3 Calycanthaceae Carolina allspice or strawberry shrub
family
- .III4 Magnoliaceae Magnolia family
- Clas here Magnoliales given by Hutchinson as an order
including besides Magnoliaceae and next 3 families below
Trochodendraceae (583 1191) and Cercidiphyllaceae
(583 1192) clas here also Magnoluneae given by Engler &
Gilg as a suborder including besides Magnoliaceae and the
families given below (583 1144 1152) Calycanthaceae
(583 113) Lauraceae (583 931) and Hernandiaceae (583 9312)
- 2 Winteraceae
- 3 Schizandraceae
- Included by Engler & Gilg as a tribe Schizandreae of
Magnoliaceae (583 114)
- 4 Humantandraceae
- 5 Lactoridaceae
- 6 Myrsinaceae Myrsinaceae Nutmeg family
- Changed from 583 927 as most authorities consulted clas
under Ranales (583 11) Clast by Hutchinson under Laurales
(see 583 931)
- 7 Monimiaceae
- Changed from 583 928 as most authorities consulted clas
under Ranales (583 11) Clast by Hutchinson under Laurales
(see 583 931)
- 8 Gomortegaceae
- Clast by Hutchinson under Laurales (583 931) by other
authorities consulted under Ranales (583 11)
- .III5 Anonaceae Annonaceae Custard apple family
- Clas here Anonales, given by Hutchinson as an order includ-
ing Anonaceae and Eupomatiaceae (583 1152)
- 2 Eupomatiaceae
- .III6 Menispermaceae Moonseed family

DECIMAL CLASIFICATION

- 583 117 **Berberidaceae** **Barberry family**
 Berberideae is according to Engler & Gilg a tribe belonging to this family. Clas here Berberidales given by Hutchinson as an order including Berberidaceae etc
- 2 **Lardizabalaceae**
- 3 **Circaeasteraceae**
- 4 **Sargentodoxaceae**
- 118 **Nymphaeaceae** **Waterlily family**
 Clas here Nymphaeaceae given by Engler & Gilg as a suborder including Nymphaeaceae and Ceratophyllaceae (583 1182) clas here also Cabombaceae included by Engler & Gilg as a subfamily Cabombodeae of Nymphaeaceae and Nelumbaceae included by Engler & Gilg as a subfamily Nelumbonoidae of Nymphaeaceae
- 2 **Ceratophyllaceae** **Ceratophylleae** **Hornwort family**
 Changed from 583 987 as all authorities consulted clas under Ranales (583 11)
- 119 **Trochodendrineae**
- 1 **Trochodendraceae** **Trochodendron family**
- 2 **Cercidiphyllaceae**
- 12 **Parietales** **Rhoadales**
 See also the following included by Engler & Gilg under Parietales
- | | | | |
|---------|---------------|---------|-------------|
| 583 112 | Dilleniaceae | 583 461 | Caryaceae |
| 245 | Ochnaceae | 468 | Begoniaceae |
| 445 | Passiflorales | 469 | Ditiscaceae |
| | | 983 | Laciniaceae |
- 121 **Sarracenaceae** **Pitcher plant family**
 Clas here Sarracenales given by most authorities consulted as an order including Sarracenaceae Droseraceae (583 393) and Nepenthaceae (583 9221)
- 122 **Rhoadales** **Rhoadales** **Papaverales**
 See also 583 286 Bretschneideraceae included by Engler & Gilg under Rhoadales. Authorities differ considerably as to inclusiveness of Rhoadales
- 1 **Papaveraceae** **Poppy family**
 Clas here Rhoeadineae given by Engler & Gilg as a suborder of Rhoadales (583 122) with only 1 family Papaveraceae
- 2 **Moringaceae** **Moringeae**
 Clas here Moringeae given by Engler & Gilg as a suborder with only 1 family Moringaceae. Clas by Hutchinson under Cappadales (see 583 13)
- 3 **Fumariaceae**
 Included by Engler & Gilg as a subfamily Fumariodeae of Papaveraceae (583 1221)
- 123 **Cruciferae** **Brassicaceae** **Mustard family**
 Clas here Cruciales given by Hutchinson as an order with only 1 family Cruciferae

Capparidinae

Clas here Capparidales, given by Hutchinson as an order
See also 583 123 Cruciferae included by Engler & Gölz under
Capparidinae

- .131 **Capparidaceae** **Capparidaceae** **Caper family**
Koerberiaceae is included by Engler & Gölz as a sub-
family Koerberiinae here of Capparidaceae
- .132 **Tovaniaceae** **Tovaria family**
- .133 **Resedaceae** **Mignonette family**
Clas here Resedaceae given by Engler & Gölz as a
suborder with only 1 family Resedaceae
- .134 **Cistaceae** **Rock rose family**
Clas here Cistaceae given by Engler & Gölz as a suborder
including Cistaceae and Bixaceae (583 138)
- .135 **Violaceae** **Violaceae** **Violet family**
Clas here Violales given by Hutchinson as an order
including Violaceae etc
- .136 **Cochlospermaceae**
Clas here Cochlospermineae given by Engler & Gölz as
a suborder with only 1 family Cochlospermaceae
- .137 **Canellaceae** **Winteranaceae** **Wild cinnamon family**
- .138 **Bixaceae** **Bixneae** **Arnotto family**
Clas here Bixales given by Hutchinson as an order
including Bixaceae etc
- .139 **Flacourtiaceae**
Clas here Flacourtiaceae given by Engler & Gölz as a
suborder including Violaceae (583 135) Winteranaceae
(583 137) Stachyuraceae (583 1392) Turneraceae
(583 455) Passifloraceae (583 456) Malvaceae
(583 457) and Achariaceae (583 458)
- 2 **Stachyuraceae**
- .14 **Polygalineae**
Given by Engler & Gölz as a suborder of Geraniales (583 21)
including Polygalaceae (583 143) and Tremandraceae (583 142)
A group of doubtful position (Rendle) variously placed —
near Parietales (583 12) with Sapindales (583 28) or with
Geraniales (583 21)
Clas here Polygalales given by Hutchinson as an order
including Polygalaceae (583 143) etc
- .141 **Pittosporaceae** **Hedge laurel family**
Clas by Engler & Gölz under Saxifragaceae (583 38)
with Pittosporaceae as a tribe of Pittosporaceae Clas
here Pittosporales given by Hutchinson as an order
including Pittosporaceae etc
- .142 **Tremandraceae** **Tremandraceae**
See note under 583 14
- .143 **Polygalaceae** **Polygalaceae** **Milkwort family**
See note under 583 14
- .145 **Vochysiaceae** **San Juan family**
Clas by Engler & Gölz under Geraniales (583 21)
Hutchinson includes under Polygalales (see 583 14)

583 15

Caryophyllineae

Class here Caryophyllales given by Bessey and Hutchinson as an order including Caryophyllaceae (583 152) etc. See also 583 91 Centrospermae

.151

Frankeniaceae

.152

Caryophyllaceae Caryophylleae Pink family

See also 583 91 Centrospermae

153

Silenoideae Sileneae, pinks, catchflies, campion;

154

Alsinoideae Chickweed, starworts, stitchworts

See also 583 912 Illecebraceae included by Engler & Gilg under Alsinoideae

- | | | | | |
|---|-------------|------------|---|---------------|
| 1 | Polycarpeae | Allseeds | 4 | Paronycheae |
| 2 | Alsineae | Chickweeds | | Whitlow worts |
| 3 | Sperguleae | | 5 | Scleranthaeae |
| | | | 6 | Pteranthaeae |

156

Portulacineae

See also 583 91 Centrospermae

1

Portulacaceae Portulacae Purslane family

Class by some authorities under Caryophyllales (see 583 15) by others under Centrospermae (583 91)

2

Basellaceae

.158

Tamaricineae Tamariscineae Tamaricaceae

Tamarisk family

Class here Tamaricales given by Hutchinson as an order including Tamaricaceae etc. See also Frankeniaceae (583 151) and Elatinaceae (583 161) included by Engler & Gilg under Tamaricineae

16

Theineae Guttiferales

Theineae is given by Engler & Gilg as a suborder of Parietales (583 12) including (besides most of families given in subdivisions below) Dilleniaceae (583 112) and Ochnaceae (583 245) Class here Theales given by Hutchinson as an order including Theaceae (583 166) etc. He also has Guttiferales including Guttiferae (583 163) etc. Bessey and Rendle have Guttiferales including Theaceae (583 166) Guttiferae (583 163) etc., while Britton gives Theaceae directly under Parietales

.161

Elatinaceae Elatineae Waterwort family

See also 583 158 Tamaricineae

.162

Hypericaceae Hypericineae St Johnswort family

Included by Engler & Gilg and Rendle as a genus Hypericum under Guttiferae (583 163)

.163

Guttiferaceae Guttiferae Clusiaceae Balsam fig family

164

Eucryphiaceae

.165

Quinaceae

166

Theaceae Ternstroemiaceae Camellaceae Tea or camellia family

1

Actinidiaceae

2

Saurauaceae

Included by Engler & Gilg in Actinidiaceae (583 1661)

3

Medusagynaceae

4

Strasburgeriaceae

Included by Hutchinson in Theaceae (583 166)

5

Caryocaraceae Souari nut family

6

Marcgraviaceae

167

Dipterocarpaceae Dipterocarpeae Winged fruit tree family (camfor, gurjun balsam, dammar)

.168

Chlaenaceae Schizolaenaceae

Class by Hutchinson under Theales (see 583 16) by Bessey and Engler & Gilg under Malvales (583 17) Class here Chlaenaceae given by Engler & Gilg as a suborder with only 1 family Chlaenaceae

Malvales Columnniferae

See also 583 168 Chlaenaceae included by Engler & Gilg under Malvales

Malvineae

171

Malvaceae Mallow or cotton family

172

Bombacaceae Silk cotton tree family

173

Sterculiaceae Coco family

18

Tiliaceae Linden family

19

Clas here Tiliales given by Hutchinson as an order including Tiliaceae etc

191

Gonystylaceae

192

Elaeocarpaceae Elaeocarpaceae

193

Scytopetalaceae Scytopetalaceae

2

Disciflorae

21

Geraniales

Clas here Geraniales given by Engler & Gilg as a suborder of Geraniales including most families of the order See also the following included by Engler & Gilg in Geraniales

583 14 Polygalaceae 583 145 Vochysiaceae

142 Tremandraceae

951 Euphorbiaceae

143 Polygalaceae

211

Linaceae Flax family

212

Erythroxylaceae Coca family (cocaïn)

213

Humniaceae Bastard bullet tree

214

Malpighiaceae Golden spoon tree

Clas here Malpighiaceae given by Engler & Gilg as a suborder of Geraniales (583 21) including Malpighiaceae Trigonaceae (583 215) and Vochysiaceae (583 145) clas here also Malpighiales given by Hutchinson as an order including Malpighiaceae etc

215

Trigonaceae

221

Zygophyllaceae Lignum vitae or caltrop family

Zygophyllaceae given by Engler & Gilg as a tribe of Zygophyllaceae subfamily Zygophylloideae

223

Geraniaceae Geranium family

224

Oxalidaceae Wood sorrel family (oxalis)

225

Tropaeolaceae Nasturtium or Indian cress, canary bird flower

226

Balsaminaceae Jewel weed family (touch me not)

Bentham & Hooker Bessey Hutchinson and Rendle clas this with Geraniales (583 21) Britton and Engler & Gilg with Sapindales (583 28) Clas here Balsaminaceae given by Engler & Gilg as a suborder with only 1 family Balsaminaceae

23

Rutaceae Rue family

Clas here Rutales, given by Hutchinson as an order including Rutaceae etc

241

Simarubaceae Bitterwood or ailantus family

Simarubaceae given by Engler & Gilg as a tribe of Simarubaceae subfamily Simarubodeae

242

Cneoraceae

245

Ochnaceae Red ironwood family

See also 583 16 Thymeleae

247

Burseraceae Torchwood family

251

Meliaceae Mahogany family

Clas here Meliales given by Hutchinson as an order with only 1 family Meliaceae

252

Akaniaceae

253

Callitrichaceae Water starwort family

Clas here Callitrichaceae given by Engler & Gilg as a suborder with only 1 family Callitrichaceae

255

Dichapetalaceae Chailloteaceae

Clas here Dichapetalaceae given by Engler & Gilg as a suborder with only 1 family Dichapetalaceae

DECIMAL CLASSIFICATION

583 26- 497 Calyciflorae-apopetalae

- 583 26 **Olacales Olacaceae Olacineae Olacac family**
 Olacaceae s variously class by Hutchinson in Olacales by Engler &
 G. G. and Rendle in Santalales (see 583 942 Santalaceae) by Bessey
 in Celastrales (583 27)
- 27 **Celastrales**
 Included by Britton and Engler & G. G. under Sapindales (583 28)
 Bentham & Hooker Bessey Hutchinson and Rendle give as separate
 order
- 271 **Celastrineae**
 Given by Engler & G. G. as a suborder including besides the
 families given below Salvadoraceae (583 716)
- 272 **Celastraceae Staff tree family**
- 273 **Cynillaceae Cynilla family**
- 274 **Stackhousiaceae Stackhouseae**
- 275 **Corynocarpaceae**
 Rhamnaceae previously class on this number has been
 changed to 583 2791 as Britton Engler & G. G. Hutchinson
 and Rendle have order Rhamnales (see 583 279) including
 Rhamnaceae and Vitaceae (583 2792)
- 276 **Hippocrateaceae**
- 277 **Staphylaceae Bladder nut family**
- 278 **Pentaphyllaceae Pentaphyllaceae**
 Pentaphyllax (only genus belonging to this family) included
 by Hutchinson in Theaceae (583 166)
- 1 **Aquifoliaceae Illicaceae Illicineae Holly family**
 Changed from 583 269 as recent authorities class family under
 Celastrales (583 27)
- 279 **Rhamnales**
- 1 **Rhamnaceae Buckthorn family**
 Rhamnaceae is given by Engler & G. G. as a tribe of Rhamnaceae
 Changed from 583 275 as being a family of order Rhamnales
 as constituted by Britton Engler & G. G. Hutchinson and
 Rendle
- 2 **Vitaceae Ampelidaceae Ampelideae Vine or grape
 family**
- 28 **Sapindales**
 See as follows following included by Engler & G. G. under Sapindales
 583 226 Balsaminaceae 583 716 Salvadoraceae
 27 Celastrales 584 Empetraceae
- 281 **Sapindineae**
- 282 **Sapindaceae Soapberry family**
- 283 **Aextoxicaceae**
- 284 **Aceraceae Maple family**
- 285 **Hippocastanaceae Buckeye family**
- 286 **Bretschneideraceae**
 Included by Hutchinson in Sapindaceae (583 282) Class here
 Bretschneideraceae given by Engler & G. G. as a suborder
 of Rhoeadales (583 122) with only 1 family Bretschneidera
 ceae
- 287 **Melanthineae**
- 1 **Melanthaceae Honey plant family**
- 2 **Greyiaceae**
 Included by Engler & G. G. in Melanthaceae (583 2871) as a
 genus Greyia and by Bentham & Hooker in Sapindaceae (583 282)
 Hutchinson gives as a family under Cunonales (see 583 397)

- 583 288 *Didiereineae* *Didiereaceae*
 289 *Icacimineae* *Icacinaceae*
 291 *Sabuneae* *Sabiaceae*
 292 *Anacardineae* *Anacardiaceae* Cashew or sumac family
 293 *Buxineae* *Buxaceae* Box family
 Clast by Engler & G. l. g. under Sapindales (583 28) by Hutchinson under Hamamelidales (see 583 394) and by Rendle under Tricoccae (see 583 951)
 294 *Limnanthineae* *Limnanthaceae* False mermaid family
 Clast by Engler & G. l. g. under Sapindales (583 28) by Bessey and Hutchinson under Geraniales (583 21)
 297 *Coriariaceae* *Coriariaceae* *Coriariaceae*
 Clast here *Coriariales* given by Hutchinson as an order with only 1 family *Coriariaceae* Changed from 583 298 to bring into affiliation with Sapindales (583 28) under which it is clast by Engler & G. l. g.
 298 *Anomalous Disciflorae*
 583 297 and 298 have been transposed to bring *Coriariaceae* under Sapindales See note under 583 297
 583 3-497 *Calyciflorae*
 3 *Rosales*
 See also the following included by Engler & G. l. g. under *Rosales*
 583 141 *Pittosporaceae* 583 93 *Podostemonaceae* 583 97: *Platanaceae*
 31 *Rosineae*
 See also 583 97: *Platanaceae* included by Engler & G. l. g. under *Rosineae*
 311 *Connaraceae*
 Clast by Hutchinson under Sapindales (583 28)
 32 *Leguminosae* Pulse family
 321 *Mimosoideae* *Mimosaceae* *Mimosa* subfamily
 322 *Papilionatae* *Papilionaceae* *Fabaceae* *Pea* subfamily
 323 *Caesalpinioideae* *Caesalpinaceae* *Cassiaceae*
 Senna subfamily
 The 3 groups 583 321 322 323 are given by Engler & G. l. g. and Rendle as subfamilies of *Leguminosae* Bessey Britton and Hutchinson use the family names — Bessey and Britton as families of *Rosales* Hutchinson as families of *Leguminosae* which he gives as an order *Krameriaceae* is included by Engler & G. l. g. in *Caesalpinioideae* as a tribe *Krameriaceae*
 36 *Crossosomataceae*
 See also 583 112 *Dilleniales*
 37 *Rosaceae* Rose family
 Malaceae and *Pornaceae* are included by Engler & G. l. g. in *Rosaceae* subfamily *Pomoideae* (apple subfamily) *Prunaceae* and *Drupaceae* or *Amygdalaceae* are included by Engler & G. l. g. in *Rosaceae* subfamily *Prunoideae* (plum or peach subfamily)

583.38

Saxifragineae

Clas here Saxifragales, given by Hutchinson as an order including Saxifragaceae (583.381) etc. See also 583.141 Pittosporaceae, included by Engler & Gölz under Saxifragineae

.381

Saxifragaceae Saxifrage family

The following, given as families by some authorities, are included by Engler & Gölz in Saxifragaceae: Saxifragaceae as a tribe, subfamily Saxifragoideae, Hydrangeaceae as a subfamily, Hydrangeoideae (Hydrangea subfamily), Escalloniaceae as a subfamily, Escalloniaceae, Parnassiaceae as a tribe, Parnassiaceae of Saxifragoideae; Grossulariaceae in subfamily Rubesoideae (gooseberries), Iteaceae is also included in Saxifragaceae

39

Crassulaceae Orpine family

Penthoraceae is included by Rendle in Crassulaceae

.391

Cephalotaceae Australian pitcher plant family

.392

Byblidaceae Roridulaceae

Considered 2 families by Engler & Gölz, alternative names by Hutchinson; formerly included in Droseraceae (583.393)

.393

Droseraceae Sundew family

See also 583.121 Sarracenaceae (Sarraceniales) Bertham & Hooker and Bessey clas under Rosales (583.3)

.394

Hamamelidaceae Witch hazel family

Hamamelideae is given by Engler & Gölz as a tribe of Hamamelidaceae subfamily Hamamelidoideae. Clas here Hamamelidales, given by Hutchinson as an order including Hamamelidaceae etc

2

Myrothamnaceae

3

Eucommiaceae

.395

Brunelliaceae

Clas by Hutchinson under Cunonales (see 583.39)

.396

Bruniaceae

Clas by Hutchinson under Hamamelidales (see 583.394)

397

Cunoniaceae

Clas here Cunonales, given by Hutchinson as an order including Cunoniaceae etc

583 4

Myrtales Myrtales

See also 583 933 Thymelaeaceae included by Engler & G. G. under Myrtales

41

Myrtaceae

411

Rhizophoraceae Rhizophoraceae Mangrove family

412

Punicaceae Pomegranate family

413

Hydrocaryaceae Trapaceae Water chestnut family

Included by some authorities in Onagraceae (see 583 445)

414

Combretaceae Myrobalan family

415

Nyssaceae Tupelo or sour gum family

Clast by Hutchinson under Umbellales (583 48)

416

Alangiaceae

Clast by Hutchinson under Umbellales (583 48)

417

Haloragaceae Haloragaceae Haloragidaceae

Haloragidaceae Haloragaceae Water-milfoil family

Changed from 583 908 as most authorities consulted class under Myrtales (583 4) Clast by Hutchinson under Lythrales (see 583 411)

42

Myrtaceae Myrtle family

423

Lecythidaceae

Brazil nut monkey pot tree sapocain nut etc

43

Melastomaceae Melastomataceae Meadow beauty family

441

Lythraceae Lythraeae Loosestrife family

Class here Lythrales given by Hutchinson as an order including Lythraceae etc

442

Heteropyxidaceae

Clast by Hutchinson under Rhamnales (583 279)

443

Sonneratiaceae

444

Crypteroniaceae

445

Onagraceae Oenotheraceae Onagraceae Evening primrose family

Oenothera is given by Engler & G. G. as a genus of Onagraceae

446

Hippuridaceae Hippuridaceae Mare's tail family

Given by Engler & G. G. as a suborder of Myrtales (583 4) with only 1 family Formerly included in Haloragaceae (see 583 417) where it is left by Britton and Hutchinson as the genus Hippurus

447

Cynomoraceae Cynomoraceae

Given by Engler & G. G. as a suborder of Myrtales, with only 1 family clast by Hutchinson and Rendle under Santalales (583 94)

- 583 45 **Passiflorales**
 See also 583 12 Parietales
- 451 **Samydaceae**
 Class by Hutchinson under Parietales (see 583 138)
- 453 **Loasaceae Loaseae Loasa or star flower family**
 Class here Loasineae given by Engler & Gilg as a suborder of Parietales (583 12) with only 1 family Loasaceae class here also Loasales given by Bessey and Hutchinson as an order including Loasaceae etc
- 454 **Ancistrocladaceae**
 Class by Bessey under Loasales (see 583 453) Class here Ancistrocladineae given by Engler & Gilg as a suborder of Parietales (583 12) with only 1 family Ancistrocladaceae
- 455 **Turneraceae**
- 456 **Passifloraceae Passifloreae Passion flower family**
- 457 **Malesherbiaceae**
- 458 **Achariaceae**
- 46 **Cucurbitales Peponiferae**
 According to Engler & Gilg this order with only 1 family Cucurbitaceae (583 461) belongs with Metachlamydeae (583 5) Britton classes the family in same large division under Campanulales (583 57) Bessey Hutchinson and Rendle leave it with Archichlamydeae (Polypetalae) as did Bentham & Hooker Cucurbitales or Peponiferae includes according to Hutchinson and Rendle 583 461 583 468 469 Hutchinson also includes 583-462
- 461 **Cucurbitaceae Gourd family**
- 462 **Caneaceae Papayaceae Papaya family**
 Class by Hutchinson under Cucurbitales (583 46) Class here Papayaceae given by Engler & Gilg as a suborder of Parietales (583 12) with only 1 family Caneaceae
- 468 **Begoniaceae Begonia family**
 Class by Hutchinson and Rendle under Cucurbitales (583 46) Class here Begoniaceae given by Engler & Gilg as a suborder of Parietales (583 12) with only 1 family Begoniaceae
- 469 **Datisceae Datisceae American false hemp, Asiatic bastard hemp**
 Class by Hutchinson and Rendle under Cucurbitales (583 46) Class here Datisceae given by Engler & Gilg as a suborder of Parietales (583 12) with only 1 family Datisceae
- 47 **Ficoidales**
- 471 **Cactaceae Cacteae Cactus family**
 Class here Opuntiales given by Britton Engler & Gilg and Rendle and Cactales given by Bessey and Hutchinson as an order with only 1 family Cactaceae
- 475 **Alzooaceae Ficoidaceae Sea purslane or carpet weed family**
 Ficoidaceae given by Engler & Gilg and Rendle as a subfamily of Alzooaceae See also 583 91 Centrospermae
- 476 **Molluginaceae**
 Included by Engler & Gilg as a subfamily Molluginaceae of Alzooaceae (583 475)
- 48 **Umbelliflorae Umbellales**
- 481 **Umbelliferae Apiaceae Ammiaceae Parsley or carrot family**
- 491 **Araliaceae Ginseng family**
- 497 **Cornaceae Dogwood family**

583.5

Metachlamydeae Gamopetalae Monopetalae Sympetalae

Axiflorae-gamopetalae polycarpellatae, Axiflorae-gamopetalae-dicarpellatae, Calyciflorae-gamopetalae

583.51-591 Sympetalae-tetracyclae-inferae

Calyciflorae-gamopetalae Inferae

51

Rubiales

See also the following, included by Engler & Gilg in Rubiales 583 531

Valerianaceae 583 541 Dipsacaceae

.511

Caprifoliaceae Honeysuckle family

.513

Adoxaceae Moschatel family

.52

Rubiaceae Madder family

.53

Asterales

.531

Valerianaceae Valerian family

Class here Valerianales, given by Britton as an order including Valerianaceae and Dipsacaceae (583 541) class here also Valerianaceae given by Engler & Gilg as a tribe of Valerianaceae See also 583 51 Rubiales

.541

Dipsacaceae Dipsaceae Teasel family

See also 583 51 Rubiales

.546

Calyceraceae Calysereae

See also 583 57 Campanales

.55

Compositae Compositae

Compositae is synonymous with Bessey's order Asterales In using family names below rather than tribe names, Bessey is followed. See also 583 57 Campanales

.552

Liguliflorae Cichoriaceae Lactucaceae Cichorieae

Chicory or lettuce family

.553

Tubuliflorae Labiatiflorae

2

Mutisiaceae Mutisieae Mutisia family

3

Carduaceae Cynareae Thistle family

4

Arctotidaceae Arctotidoae Gazania family

5

Calendulaceae Calenduleae Marigold family
(calendula)

6

Senecionidaceae Senecioneae Groundsel family

7

Anthemidaceae Anthemideae Camomile family

8

Heliantheae Heleneae False sunflower
family (sneezeweed)

5542

Inulaceae Inuleae Everlasting family

3

Asteraceae Astereae Aster family

4

Eupatoriaceae Eupatorieae Blazing star
family (hemp-agrimony)

5

Vernoniaceae Vernoniaceae Ironweed family
(elephant's foot)

6

Ambrosiaceae Ambrosiinae Ragweed family
Included by Engler & Gilg and Rendle in Heliantheae (583 5547)

7

Helianthaceae Heliantheae Sunflower family

DECIMAL CLASIFICATION

- 583 57 Campanales Campanulales Campanulatae
 See also the following included by Engler & Gilg in Campanulatae
 583 546 Calyceratae 583 55 Compositae
- 571 Stylidiaceae Candoileaceae Stylidaceae Stylewort family
- 58 Goodeniaceae Goodenovieae
- 581 Brunoniaceae
- 59 Campanulaceae Bluebell, bellwort or bellflower family
- 591 Lobeliaceae
 Included by Engler & Gilg as a subfamily Lobeliales of Campanulaceae (583 59)
- 583 6-6864 Sympetalae pentacyclae Heteromerae
 Axiflorae-gamopetalae polycarpellatae
 See also 583 899 Plantaginaceae included in this group by Bessey
- 6 Ericales
- 61 Ericineae
 Includes following 5 families 583 611 631
- 611 Vacciniaceae Whortleberry or huckleberry family
 Included by Engler & Gilg and Rendle as a subfamily Vacciniaceae of Ericaceae (583 62)
- 62 Ericaceae Heath family
- 622 Clethraceae White alder family
- 63 Monotropaceae Indian pipe family
 Included by Engler & Gilg and Rendle as a subfamily Monotropaceae of Pyrolaceae (583 631) with Monotropaceae as a tribe
- 631 Pyrolaceae Pyrolaceae Wintergreen family
- 64 Epacridaceae Epacris family
 Class here Epacridaceae given by Engler & Gilg as a suborder of Ericales (583 6) with only 1 family Epacridaceae with Epacridaceae as a tribe
- 65 Diapensiaceae Flowering moss, pyxie or diapensia family
 Class here Diapensiaceae given by Engler & Gilg as an order with only 1 family Diapensiaceae
- 66 Lennoaceae Lennoa family
 Class here Lennoaceae given by Engler & Gilg as a suborder of Tubiflorae (583 76) with only 1 family Lennoaceae
- 67 Primulales
- 671 Plumbaginaceae Leadwort or plumbago family
 Class here Plumbaginaceae given by Engler & Gilg and Rendle as an order with only 1 family Plumbaginaceae with Plumbaginaceae as a tribe
- 672 Primulaceae Primrose family
- 677 Myrsinaceae Mariberry family
 Myrsinaceae is given by Engler & Gilg as a tribe of Myrsinaceae subfamily Myrsinaceae Class here Myrsinaceae given by Hutchinson as an order with only 1 family Myrsinaceae
- 678 Theophrastaceae

583 68

Ebenales

681

Sapotineae

1

Sapotaceae Sapodilla family

2

Hoplostigmataceae

685

Diospyrineae

1

Ebenaceae Ebony family

6861

Styracaceae Styracaceae Storax family

Clas here Styracales given by Hutchinson as an order including Styracaceae and the next 3 families

2

Dichlantheraceae

3

Symplocaceae Sweetleaf family

4

Lissocarpaceae

583 7-8 Sympetalae tetracyclae-superae
 Axiflorae-gamopetalae dicarpellatae
 Bicarpellatae

7

Gentianales Contortae

71

Oleaceae Oliv family

Clas here Oleineae given by Engler & Gilg as a suborder with only 1 family Oleaceae clas here also Oleales given by Rendle as an order including Oleaceae and Salvadoraceae (583 716)

716

Salvadoraceae Salvadora family

See also 583 271 Celastrineae 583 28 Sapindales

72

Gentianineae

721

Apocynaceae Dogbane family

Clas here Apocynales given by Hutchinson as an order including Apocynaceae and Asclepiadaceae (583 73)

73

Asclepiadaceae Milkweed family

Asclepiadeae is given by Engler & Gilg and Rendle as a tribe of Asclepiadaceae subfamily Cynanchodeae

74

Loganiaceae Logania family

Clas here Loganiales given by Hutchinson as an order including Loganiaceae and Oleaceae (583 71)

741

Desfontaineaceae

Included by Hutchinson in Loganiaceae (583 74)

75

Gentianaceae Gentian family

Gentianeae is given by Engler & Gilg as a tribe of Gentianaceae subfamily Gentianeae

751

Menyanthaceae Buckbean family

Included by Engler & Gilg as a subfamily Menyanthodeae of Gentianaceae (583 75)

583 76

Tubiflorae

Includes 583 761 891 see also 583 66 Lenno near

761

Polemoniales

Britton's Polemoniales corresponds to Engler & Gilg's and Rendle's Tubiflorae (583 76). Bessey's Polemoniales corresponds to Bentham & Hooker's (583 7611 79). Hutchinson's includes only Polemoniaceae (583 7611) and Hydrophyllaceae (583 764).

x

762

Polemoniaceae Polemonium or phlox family

764

Fouquieriaceae Fouquieriaceae Candlewood family

77

Hydrophyllaceae Waterleaf family**Boraginaceae** Boraginaceae Boragineae**Borage or forget-me-not family**

* Class here Boraginaceae given by Engler & Gilg as a suborder of Tubiflorae (583 76) including Boraginaceae and Hydrophyllaceae (583 764). Class here also Boraginales given by Hutchinson as an order with only 1 family Boraginaceae.

78

Convolvulaceae Convolvulus or morning-glory family

Class here Convolvulaceae given by Engler & Gilg as a suborder of Tubiflorae (583 76) including Convolvulaceae Polemoniaceae (583 7611) and Fouquieriaceae (583 762). Class here also Convolvulales given by Rendle as an order with only 1 family Convolvulaceae.

781

Cuscutaceae Dodder family

Included by Engler & Gilg as a subfamily Cuscutaceae of Convolvulaceae (583 78).

79

Solanaceae Nightshade or potato family

Class here Solanales, given by Hutchinson as an order including Solanaceae and Convolvulaceae (583 78). See also 583 8 Solanaceae.

792

Nolanaceae

Included by Hutchinson in Convolvulaceae (583 78). See also 583 8 Solanaceae.

- 583 8 Personales Scrophulariales Solanineae
- Bes des families given on 583 81 852 Engler & Gilg includes
under Solanineae Solanaceae (583 79) and Solanaceae (583 792)
- .81 Scrophulariaceae Scrophularineae Figwort or
snapdragon family
- See also 583 876 Selaginaceae included by Engler & Gilg
under Scrophulariaceae as a tribe of subfamily Ant
rhineae
- .811 Orobanchaceae Broomrape family
- .823 Globulariaceae Globe daisy family
- .825 Lentibulariaceae Lentibularieae Eladderwort
family
- .829 Columellaceae
- .83 Gesneriaceae Gesneraceae
- .84 Bignoniaceae Bignonia, catalpa or trumpet-
creeper family
- .85 Pedalaceae Pedalineae Pedalum family
- .852 Martyniaceae Unicorn plant family
- .86 Acanthaceae Acanthus family
- Clas here Acanthineae given by Engler & Gilg as a
suborder of Tub florae (583 76)
- 87 Lamiales
- .871 Myoporaceae Bastard sandalwood family
- Myoporineae is given by Engler & Gilg as a suborder of
Tubiflorae (583 76) with only 1 family Myoporaceae
- .873 Phrymaceae Lopseed family
- Clas here Phrymneae given by Engler & Gilg as a
suborder of Tub florae (583 76) with only 1 family
Phrymaceae
- .876 Selaginaceae Dwarf heath shrub family
- Included by Engler & Gilg in Scrophulariaceae (583 81)
as a tribe Selagineae
- 88 Verbenneae
- Given by Engler & Gilg as a suborder of Tub florae (583 76)
including following 2 families
- .881 Verbenaceae Vervain family
- .891 Lamiaceae Labiatae Mint family
- .899 Plantagnales Plantaginaceae Plantagineae
- Plantain family
- Plantaginaceae is clas by Bessey under Primulales (583 67) other
authorities consulted clas it as only family of order Plantaginales

583 76

Tubiflorae

Includes 583 761 891 see also 583 66 Lennouneae

761

Polemoniales

Britton's Polemoniales corresponds to Engler & Gilg's and Rendle's Tubiflorae (583 76) Bessey's Polemoniales corresponds to Bentham & Hooker's (583 761: 79) Hutchinson's includes only Polemoniaceae (583 611) and Hydrophyllaceae (583 764)

1

Polemoniaceae Polemonium or phlox family

762

Fouquieraceae Fouquieriaceae Candlewood family

764

Hydrophyllaceae Waterleaf family

77

Boraginaceae Boraginaceae Boragineae**Borage or forget me not family**

Clas here Boraginaceae given by Engler & Gilg as a suborder of Tubiflorae (583 76) including Boraginaceae and Hydrophyllaceae (583 764) Clas here also Boraginales given by Hutchinson as an order with only 1 family Boraginaceae

78

Convolvulaceae Convolvulus or morning glory family

Clas here Convolvulaceae given by Engler & Gilg as a suborder of Tubiflorae (583 6) including Convolvulaceae, Polemoniaceae (583 611) and Fouquieraceae (583 62) Clas here also Convolvulales given by Rendle as an order with only 1 family Convolvulaceae

781

Cuscutaceae Dodder family

Included by Engler & Gilg as a subfamily Cuscutondeae of Convolvulaceae (583 78)

79

Solanaceae Nightshade or potato family

Clas here Solanales, given by Hutchinson as an order including Solanaceae and Convolvulaceae (583 78) See also 583 8 Solanaceae

792

Nolanaceae

Included by Hutchinson in Convolvulaceae (583 78) See also 583 8 Solanaceae

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583 925	Micrembryaceae	Piperales	
1	Piperaceae	Pepper family	
2	Saururaceae	Lizard's-tail family	
.926	Chloranthaceae		
93	Daphnales		
.931	Lauraceae	Laurineae	Laurel family
	Class here Laurales given by Hutchinson as an order including Lauraceae etc. See also 583 11 Ranales, 583 114 Magnoliaceae		
2	Hernandiaceae	Jack-in-a-box	
	Class by Hutchinson under Laurales (see 583 931) See also 583 11 Ranales 583 114 Magnoliaceae		
.932	Proteales	Proteaceae	Honey flower
.933	Thymelaeales		
	Class here Thymelaeaceae, given by Engler & Gilg as a suborder of Myrtales (583 4) All families of this group are classed by Bessey under Celastrales (583 27)		
1	Thymelaeaceae	Mezereum or mezereon family	
.934	Penaeaceae		
935	Elaeagnaceae	Oleaster family	
936	Geissolomataceae	Geissolomaceae	
937	Oliniaceae	Hard pear	
94	Santalales	Achlamydo-sporeae	
	All families of this group are classed by Bessey under Celastrales (583 27) See also 583 26 Olacaceae included under Santalales by Engler & Gilg and Rendle		
941	Loranthineae	Loranthaceae	Mistletoe family
.942	Santalineae		
	See also 583 26 Olacaceae included under Santalaleae by Engler & Gilg		
.943	Santalaceae	Sandalwood family	
944	Myzodendraceae	Myzodendron family	
.945	Opiliaceae		
.946	Grubbiaceae		
1	Octoknemataceae		
.947	Balanophorineae	Balanophoraceae	Balanophoreae

DECIMAL CLASIFICATION

- 583 95 Unisexuales
- 951 Tricoccae Euphorbiales Euphorbiaceae Spurge family
 Tricoccae is given by Engler & Gulg as a suborder of Geraniales (583 21) with only 1 family Euphorbiaceae Hutchinson gives Euphorbiales as an order with only 1 family Rendle gives Tricoccae as an order including Euphorbiaceae etc
- 961 Balanopsidales Balanopsidaceae Balanopseae
- 962 Urticales Urticiflorae
- 1 Urticaceae Nettle family
- 2 Moraceae Mulberry family
- 3 Cannabinaceae
 Included by Engler & Gulg in Moraceae (583 9622) as a subfamily Cannabaceae
- 4 Scyphostegiaceae
- 5 Ulmaceae Elm family
- 6 Barbeyaceae
- 971 Platanaceae Plane tree family
 See also 583 31 Rosineae
- 972 Leitneriales Leitneriaceae Leitneriaceae Corkwood family
- 973 Juglandales
- 1 Juglandaceae Juglandaceae Walnut family
 Britton and Engler & Gulg give this as only family in Juglandales (583 973) Hutchinson includes also Julianaceae (583 9732)
- 2 Julianaceae Julianaceae
 Class here Julianales given by Engler & Gulg and Rendle as an order with only 1 family Julianaceae
- 974 Myricales Myricaceae Sweet gale or bayberry family
- 975 Casuarinales Casuarinaceae Casuarineae Beefwood
- 976 Fagales Cupuliferae
- 977 Fagaceae Beech or oak family
- 978 Betulaceae Birch family
- 979 Corylaceae
 Included by Engler & Gulg in Betulaceae (583 978) as a tribe Coryleae
- 98 Other dicotyledones Anomali
- 981 Salicales Salicaceae Salicaceae Willow family
- 982 Garryales Garryaceae Fever bush
- 983 Lacisternineae Lacisternaceae
 Given by Engler & Gulg as a suborder of Par etaies (583 12) with only 1 family Lacisternaceae family is classed by Bessey under Ranales (583 11) by Hutchinson under Piperiales (583 925)
- 984 Empetrineae Empetraceae Crowberry family
 Classed by Bessey Britton and Engler & Gulg under Sapindales (583 28) by Hutchinson and Rendle under Celastrales (583 27)
- 985 Pandales Pandaceae

Monocotyledones Monocotyledonae Monocotyledoneae

584 1-2 Monocotyledoneae-epigynae

- 1 **Microspermae** **Microspermeae**
 1.1 **Hydrocharideae** **Hydrales** **Hydrocharitaceae**
Vallisneriaceae Frog's bit or tape grass family
See also 584.73 Helobiales 584.73 Butomaceae
 1.2 **Orchidales**
 1.3 **Burmanniaceae** **Burmannia family**
Class here Burmanniaceae given by Engler & Gilg as a suborder with only 1 family Burmanniaceae
 1.5 **Orchidaceae** **Orchideae** **Orchis or orchid family**
Class here Gynandreae given by Engler & Gilg as a suborder with only 1 family Orchidaceae
 2 **Epigynae** **Epigynaeae** **Iridales**
 2.1 **Scitamineae** **Arillatae** **Scitaminales** **Musales**
 2.1.1 **Marantaceae** **Arrowroot family**
 2.1.2 **Cannaceae** **Canna family**
 2.1.3 **Zingiberaceae** **Ginger family**
 2.1.4 **Musaceae** **Banana family**
 2.2 **Bromeluneae** **Bromeliaceae** **Pineapple family**
Bromelneae is given by Engler & Gilg as a suborder of Farinosae (584.3) including Bromeliaceae Rapateaceae (584.39) and Thurniaceae (584.391)
 2.3 **Liliiflorae** **Liliales**
Class here Liliales given by Engler & Gilg as a suborder including the families in 584.231-323 (except 584.24 Iridaceae) See also 584.43 Juncaceae For scope of Bessey's Liliales see note under 584.3
 2.3.1 **Haemodoraceae** **Bloodwort family**
 2.4 **Iridaceae** **Irideae** **Iris family**
Class here Iridaceae given by Engler & Gilg as a suborder with only 1 family Iridaceae
 2.5 **Amaryllidaceae** **Amaryllis family**
Amaryllidaceae is given by Engler & Gilg as a tribe of Amaryllidaceae subfamily Amaryllidoideae
 2.6 **Taccaceae**
 2.7 **Dioscoreaceae** **Yam family**
 2.8 **Velloziaceae** **Tree lily**
Rendle includes this as a tribe Velloziaceae of Amaryllidaceae (584.25)

584 3~9 Monocotyledoneae-hypogynae

584 3

Coronarieae Farnosae Xyridales

See also the following included by Engler & G. Ig. under Farnosae
 584 22 Bromelaceae 584 41 Flagellariaceae 584 81 Enantoblastae
 Bessey's Liliaceae (see 584 23) corresponds more nearly to this group than
 to Liliaceae (Liliaceae) (584 23) of Britton, Engler & G. Ig. and Rendle

31 Stemonaceae Roxburghiaceae

See also 584 23 Liliaceae

32 Labiaceae Lily family

See also 584 23 Liliaceae

321 Melanthaceae Bunch flower family

Included by Engler & G. Ig. as a subfamily Melanthaceae
 of Liliaceae (584 32)

322 Convallariaceae Lily of the valley family

Included by Engler & G. Ig. as a tribe Convallariaceae of
 Liliaceae (584 32)

323 Smilacaceae Smilax family

Included by Engler & G. Ig. as a subfamily Smilacaceae of
 Liliaceae (584 32)

33 Pontederiaceae

331 Cyanastraceae

34 Pontederiaceae Pickerel weed family

35 Philydrineae Philydraceae

Given by Engler & G. Ig. as a suborder with only 1 family Philydraceae

36 Xyridaceae Xyrideae Yellow eyed grass family

See also 584 81 Enantoblastae

37 Mayacaceae Mayaceae Mayaca family

See also 584 81 Enantoblastae

38 Commelinaceae Spiderwort family

Class here Commelinaceae given by Engler & G. Ig. as a sub
 order with only 1 family Commelinaceae

39 Rapateaceae

See also 584 22 Bromelaceae

391 Thurniaceae

See also 584 22 Bromelaceae

4 Calycinae Calycineae

41 Flagellariaceae Flagellariaceae Flagellariaceae

See also 584 3 Farnosae

45 Juncineae Juncaceae Rush family

See also 584 23 Liliaceae

5 Principes Palmales Phocnicales Palmæ

Palmaceae Phocnicaceae Palm family

Bessey, Britton and Engler & G. Ig. give as an order with only 1 family
 Rendle classes under Spadiciflorae (584 64)

6 Nudiflorae Nudifloreae

61 Pandanales

All families of this group are classed by Bessey under Alismatales (584 7)

611

- 584 7 Apocarpeae Alismatales
- 71 Triuridales Triuridaceae Triurideae
- 72 Helobiae Helobiaceae Najadales Najadales Fluviales
See also 584 11 Hydrocharitaceae included by Engler & Gilg and Rendle under Helobiae
- 721 Alismatineae Alismaceae Alismataceae Water plantain family
- 73 Butomineae Butomaceae Water poppy
Butomineae is given by Engler & Gilg as a suborder including Butomaceae and Hydrocharitaceae (584 11) Included by Rendle as a tribe Butomeae of Alismaceae (584 721)
- 74 Potamogetonineae
- 741 Naiadaceae Najadaceae Naias or najas family
- 742 Potamogetonaceae Pondweed or riverweed family
Included by Britton as a genus Potamogeton in Naiadaceae (584 741)
- 743 Aponogetonaceae Lattice plant or lattice-leaf
- 744 Scheuchzeriaceae Juncagineae Arrow grass family
- 8 Glumaceae Graminales
- 81 Enantioblastae
Given by Engler & Gilg as a suborder of Farinosae (584 3) including besides the 3 families following Xyridaceae (584 36) and Mayacaceae (584 37)
- 811 Eriocaulaceae Eriocaulonaceae Eriocaulaceae Pipe-wort family
- 82 Centrolepidaceae Centrolepidiaceae Centrolepideae
- 83 Restiaceae Restionaceae
- 84 Glumiflorae
- 841 Cyperaceae Sedge family
- 9 Gramineae Poaceae Grass family
Because of size and importance of this family the tribes are here given classification being founded on Hackel as given in Engler & Prantl See also 633 2 Grasses
- 92 Spikelets 1 flowered or rarely 2 flowered
- 92 Maydeae Maiz grasses
- 93 Zoysieae
- 94 Tristegineae
- 95 Andropogoneae Blue stem grasses
- 96 Paniceae Panic "
- 97 Oryzeae Rice "
- 93 Spikelets 1 to indefinite flowered
- 932 Phalarideae Canary grasses
- 933 Agrostideae Redtop "
- 934 Aveneae Oat "
- 935 Chlorideae Gramma "
- 936 Festuceae Fescue "
- 937 Hordeae Hordeae Triticeae Wheat grasses
- 938 Bambuseae Bamboos
- 99 Other monocotyledones Anomali

Gymnospermae

- .1 Gnetales Joint fir order**
- .11 Gnetaceae Gnetum family (gnetum climbers)**
Gnetoideae
- .12 Tumboaceae Welwitschiaceae Tumboa or welwitschia family (welwitschia mirabilis)**
Tumbooideae Tumboideae Welwitschioidae
- .13 Ephedraceae Ephedra family**
Ephedroidae
- .2 Coniferae Strobilophyta Pinales**
- .21 Coniferales Conifer or pine order**
Rendle and Swingle use this term insted of Coniferae (585 2)
- .211 Taxodiaceae Taxodineae Taxodium family (sequoia, bald cypress)**
Sciadopityoideae Taxodioidae
- .212 Araucariaceae Araucarneae Old pine family**
- .213 Pinaceae Abietaceae Abietineae Pine (modern pine) family (pine, hemlock, spruce, larch, tamarak, fir)**
Britton and Rendle use Pinaceae as equivalent to Bessey's Coniferales (585 21) Pinoideae used by Bessey as a class name including all his Strobilophyta (585 2) is given by Engler & Prantl as a subfamily of Pinaceae other subfamily being Abietoideae
- .214 Cupressaceae Cupressineae Cypress family**
Cupressoidae
- .215 Thuyopsidaceae Thuya or thuja family (white cedar, arbor vitae)**
Included by Engler & Prantl as a subfamily Thuyoidae of Cupressaceae (585 214)
- .216 Juniperaceae Juniper family (juniper, red cedar)**
Included by Engler & Prantl as a subfamily Juniperoidae of Cupressaceae (585 214)
- .22 Taxales Taxad order**
- .221 Taxaceae Taxeae Yew family**
Britton and Rendle use Taxaceae as equivalent to Bessey's Taxales (585 22)
- .222 Cephalotaxaceae**
Included by Bessey and Rendle in Taxaceae (Taxeae) (585 221)
- .223 Podocarpaceae Podocarpeae**
Pherosphaeroideae Podocarpoideae
- .224 Phyllocladaceae**
Included by Engler & Prantl as a subfamily Phyllocladoideae of Podocarpaceae (585 223) included by Rendle in Taxeae (585 221)
- .5 Cordaitales**
Class here Cordaitineae given by Bessey as including Cordaitales Gnetales (585 1) and Ginkgoales (585 7)
- 51 Cordaitaceae Cordaitae**
- 53 Pityaceae**

585 7 Ginkgoales Ginkgoaceae Salisburyaceae Maiden-
hair tree family (ginkgo)

See also 634 572 Ginkgo

-9 Cycadophyta

Bessey includes bes des the orders given below Cordaitineae (see 585 5)

91 Cycadales Cycadineae

911 Cycadaceae Cycadeae Cycad family (cycas)

912 Zamiaeace Zamieae Zamia family

Included by Engler & Prantl as a subfamily Zamioideae of
Cycadaceae (585 911)

92 Bennettitales Bennettitineae

921 Caytoniaceae

922 Nilssoniaceae

923 Bennettitaceae Bennettiteae

95 Cycadofilicales Cycadofilices Pteridospermae

Pteridospermeae Pteridospermales Pteridosperma-

phyta Seed ferns

951 Araucarioxyleae

952 Protopytyaceae Protopytyeae

953 Stenomyelaceae

954 Calamopytyaceae

955 Megaloxylaceae

957 Rhetinangiaceae

961 Cycadoxylaceae Cycadoxyleae

962 Cladoxylaceae Cladoxyleae

963 Steloxylaceae

966 Medullosaceae Medulloseae Medullosae

967 Lyginodendraceae Lyginodendreae Lyginopterideae

The follow ng families ar clast by some authorities w th Filicales
(587 3) They hav characteristics common to both Filicales and
Cycadofilicales (585 93)

971 Megalopterides

972 Glossopterides

973 Taeniopterides

974 Neuropterides

975 Odontopterides

976 Callipterides

977 Alethopterides

978 Pecopterides Pecopterideae

979 Sphenopterides

981 Archaeopterides

- 586 Cryptogamia Seedless plants
- 587-588 Archegoniatae Embryophyta asiphonogama
 Embryophyta zoidiogama
- 587 Pteridophyta Fern plants Vascular
 cryptogams
- .1 Isoetales Isoetaceae Isoeteae Quillworts
- .2 Articulatae Calamophyta Calamites
- 21 Equisetales Equisetinae
- 211 Euequisetales Equisetaceae Equisetae Horse-
 tails or scouring rushes
- 212 Calamariales Calamarineae Calamarineae Old
 calamites
- 1 Calamariaceae
- 2 Protocalamariaceae Archaeocalamites
- 22 Pseudoborniales Pseudoborniaceae
- 23 Cheirostrobales Cheirostrobaceae Cheirostrobeae
- 24 Sphenophyllales Sphenophyllinae Sphenophyl-
 lacene Wedge-leaved calamites
- .3 Filicales Filicinae Ferns
- Bessey's phylum Pteridophyta (see 587) is synonymous with Filicales
 except that he includes also Isoetales (587 1)
- 31 Leptosporangiateae Modern ferns
- 311 Hydropteridineae Hydropterideae Marsiliales
- Salviniaceae Water ferns
- 1 Salviniaceae Floating ferns
- 2 Marsiliaceae Pepperworts
- 312 Eufilicinae Filicaceae Land ferns
- 1 Osmundaceae
- 2 Schizaceae
- 3 Gleicheniaceae
- 4 Dipteridaceae
- Included by Engler & Prantl as a subfamily Dipteridinae
 under Polypodiaceae (587 3127)
- 5 Matoniaceae
- 6 Parkeriaceae Ceratopteridaceae
- 7 Polypodiaceae Common ferns
- According to Engler & Prantl the tribe Aspidaceae of this
 family includes Dipteridaceae (see 587 3124)
- 8 Cyatheaceae
- 9 Hymenophyllaceae Filmy ferns
- Loxsomaceae is included by Engler & Prantl under Hymenophyllaceae

- 587 33 Eusporangiatae Old fashioned ferns
Includes according to Bessey besides the 2 orders given below
Isoetales (587 1)
- 331 Ophioglossales Ophioglossaceae Adder's tungs
- 332 Marattiales Marattiaceae
- 335 Botryopterideae Botryopteridaceae
- 38 Fossil ferns of uncertain relationship
Psaroniaceae Tree-ferns Knorripterideae Rhizomopterideae Invertebrates etc
- 4 Psilotales Psilotaceae
Class by Bessey and Clute under Lycopodiales (587 9)
- 45 Psilophytales Psilophyton
A fossil fern ally probably related to Psilotales (587 4)
- 9 Lycopodiales Lycopodiinae Lepidophyta Club mosses
- 91 Lycopodiales ligulatae Lepidodendrineae Higher club mosses
- 911 Lepidophytineae Lepidodendrales Lepidodendreae
- 1 Pleuromeiaceae
- 2 Sigillariaceae
- 3 Bothrodendraceae
- 4 Ulodendraceae
Included by Engler & Prantl in Lepidodendraceae (587 9115)
- 5 Lepidodendraceae
- 912 Selaginellineae Selaginellales Selaginellaceae
Dwarf club mosses
- 92 Lycopodiales elgulateae Lycopodiinae Lower club mosses
- 921 Cyclostigmaceae
- 922 Lycopodiaceae Common club mosses ground pines

- 588 **Bryophyta Muscineae Mossworks**
- .1 **Sphagnales Sphagna Peat mosses Sphagnaceae**
 Large bog mosses
 Included by Bessey and Engler & Gilg under Musci (588 2)
- .2 **Musci Mosses**
- 21 **Bryales True mosses**
- 211 **Polytrichinales**
 See also 588 214 Acrocarpi
- 1 **Polytrichales Polytrichaceae Haircaps**
- 2 **Dawsoniales Dawsoniaceae**
- 212 **Buxbauminales**
 See also 588 214 Acrocarpi
- 1 **Diphysciales Diphysciaceae Weberaceae**
- 2 **Buxbaumiales Buxbaumiaceae Humpback mosses**
- 213 **Eubryinales**
- 214 **Acrocarpi Top mosses**
- 1 **Eubryales**
- 11 **Timmuneae (Leafy bristle mosses) Timmiaceae**
- 12 **Bartramuncae Bartramiaceae, Catosciaceae (Catosciaceae) Meeseaceae Aulacomniaceae (Aulacomniaceae), Spiridentaceae**
- 13 **Hypnodendrineae Hypnodendraceae**
- 14 **Rhizogonuncae Rhizogoniaceae Calomniaceae, Mitteniaceae Sorapillaceae, Eustichiaceae, Drepanophyllaceae**
- 15 **Bryineae (Wood mosses) Mniaceae, Leptostomaceae (Leptostomataceae), Bryaceae**
- 2 **Tetraphidiales (Tetraphidales) Georgiaceae**
- 3 **Schistostegiales Schistostegaceae**
- 4 **Funariales**
- 41 **Splachnuneae Splachnaceae (Petticoat mosses), Oedipodiaceae**
- 42 **Funarincae Funariaceae (Bristle mosses), Ephemeraceae Disceliaceae Gigaspermaceae**
- 5 **Grimmiales Grimmiaceae**
- 6 **Pottiales**
- 61 **Pottuneae Pottiaceae Trichostomaceae (Trichostomoideae)**
- 62 **Encalyptineae Encalyptaceae**
- 63 **Syrhophodontineae Syrrhophodontaceae, Calymperaceae**
- 7 **Dicranales**
- 71 **Leucobryineae Leucophanaceae (Leucophanoidcae), Leucobryaceae (Cushion mosses)**
- 72 **Pleurophascinae Pleurophascaceae**
- 73 **Dicranineae Dicnemonaeeae Dicranaceae (Turf mosses), Seligeraceae (Seligeriaceae), Ditrichaceae, Archidiaceae, Bryoxiphiaceae**
- 8 **Fissidentales Fissidentaceae**

Pleurocarpi Side mosses

1

Hypnobryales

11

Hypnaceae Hylocomiaceae, Rhytidiaceae, Hypnaceae (Bog mosses), Sematophyllaceae, Plagiotheciaceae, Entodontaceae

12

Leskeineae Brachytheciaceae, Amblystegiaceae, Thuidiaceae, Leskeaceae, Rhegmatodontaceae (Rhegmatodontoidae), Fabroniaceae, Theliaceae

2

Hookeriales

21

Hookeriaceae Hypopterygiaceae, Leucomiaceae, Symphyodontaceae, Hookeriaceae, Pilotrichaceae

22

Nemataceae Nemataceae (Nematocaceae)

3

Isobryales

31

Neckeriaceae Echinodiaceae, Lambophyllaceae, Neckeraceae, Phyllogoniaceae

32

Leucodontineae Meteoraceae, Pterobryaceae, Myuroaceae, Trachypodaceae, Rutenbergiaceae, Prionodontaceae, Lepyrodontaceae, Ptychomniaceae, Cyrtopodaceae, Leucodontaceae, Cryphaeaceae, Hedwigiaceae

33

Fontinalineae Climaciaceae (Tree mosses), Fontinalaceae (Brook mosses)

34

Rhacopilaceae Rhacopilaceae

35

Orthotrichineae Helicophyllaceae Orthotrichaceae, Ptychomitriaceae, Erpodiaceae

.22

Andreaeales Andreaeaceae Black mosses, small mosses

.3

Hepaticae Liverworts

31

Jungermanniales Scale mosses

311

Jungermanniaceae acrogynae

.312

" anacrogynae Metzgeriaceae

32

Anthocerotales Anthocerotaceae Hornworts

33

Marchantiales Great liverworts

.331

Ricciaceae

Clas here Ricciales given by Bessey as an order with only 1 family Ricciaceae

.332

Marchantiaceae

Targion o deae Marchantioidae

333

Corsiaceae

Included by Engler & Gilg as a subfamily, Corsioidae of Marchantiaceae (588 332)

-4

Charophyta Charales Stoneworts

Some authorities clas Charophyta under Algae (589.3)

-41

Characeae

-42

Nitellaceae

Included by Engler & Gilg and Harmer as a tribe, Nitelleae, of Characeae (588 41)

Thallophyta

- .1 Lichenes Lichens
 II Basidiolichenes
 III Hymenolichenes
 III2 Gasterolichenes
 15 Ascolichenes
 16 Pyrenocarpeae Pyrenolichenes Angiocarpae
 Lichens with covered fruit, closed lichens
 Mycoporaceae Mastodiaceae Pyrenotrichaceae Antho-
 pyreniaceae Pyrenidaceae Strigulaceae Astrothelaceae Par-
 athelaceae Trypethelaceae Phyllopyreniaceae Pyrenulaceae
 Pyrenothamnaceae (Pyrenothamnaceae) Dermatocarpaceae Ver-
 rucariaceae Epigloeaceae Morolaceae
 17 Gymnocarpeae Gymnocarpae Lichens with
 naked fruit
 171 Cyclocarpineae Discolichenes Disk lichens
 Physciaceae Buelliaaceae, Theloschistaceae Caloplacaceae
 Usneaceae Parmeliaceae, Lecanoraceae, Pertusariaceae
 Acarosporaceae Gyrophoraceae Cladoniaceae Phyllo-
 sporaceae Lecideaceae Peltigeraceae Stictaceae Parmar-
 iaceae Hepthaceae, Collemaaceae (Collemaaceae) Lichin-
 aceae Pyrenopezizaceae Ephebeaceae Coenogoniaceae
 Gyalectaceae Ectolechiaceae Dipsoschistaceae Thelotre-
 macaceae (Thelotremaaceae) Chrysotrichaceae (Chrysotri-
 chaceae) Byssolomaceae (Pilocarpaceae) Lecanactidaceae
 172 Graphidineae Graphidales Slit lichens
 Roccellaceae Dirinaceae Chiodectonaceae Graphidaceae
 Arthoniaceae
 173 Comocarpineae Caliciales Powdery lichens
 Sphaerophoraceae Cyphelaceae Caliciaceae
 18 Gelatinosae Gelatinous lichens
 19 Byssaceae Filamentous "

589 2 Eumycetes Carpomycetaceae Fungi Mushrooms

Terms Carposporeae (formerly as. gnd to 589 21 and 589 4) Oosporeae (589 24 and 589 5) Zygosporaeae (589 27 and 589 6) and Zoosporaeae (589 67) hav been discarded by best authorit es for clasfication purposes but early lte ature on those subjects is kept on the old numbers For physiologic discuss ons see 581 32 Spores

21 Basidiomycetes Basidiales Smuts rusts mushrooms

Carpomycetaceae see note under 589 2 Basidiomycetes changed from 589 22

22 Eubasidiu Eubasidiomycetes Basidiosporeae

221 Autobasidiomycetes Gasteromycetes Stinkhorn fungi, puffball, erth star

3 Exobasidiineae Exobasidiales

Exobasidiaceae Hypochnaceae

4 Dacryomycetaceae Dacryomycetaceae

5 Phallineae Phalliales Phalloideae Stinkhorn fungi buzzard s nose

Phallaceae Clathraceae

6 Hymenogastrineae Hymenogastrales Hymenogasteraceae Hymenogastraceae Subterranean fungi false tubers

7 Lycoperdineae Lycoperdales Lycoperdeae Puffballs devil s snuf box earth star

Lycoperdaceae Tylostomataceae

8 Nidularineae Nidulariales Nidulariaceae Bird s nest fungi

9 Sclerodermatineae Sclerodermatales Sclerodermaceae Plectobasidiineae Hard puffballs

Tylostomataceae Sphaerobolaceae Calostomataceae

Sclerodermataceae Podaxaceae

222 Hymenomycetaceae Hymenomycetes Agaricales Mushrooms toadstool fungi fairy clubs

Tulasnellaceae Corticaceae Thelephoraceae (lethery fung) Clavariaceae (Clavariace coral fungi) Hydniaceae (Hydneae hodgehog or prickly fungi) Polyporaceae (Polyporeae tubebearing fungi) Agaricaceae (Agaricaceae gillbearing fungi, toadstools)

223 Protobasidiomycetes

Removed from 589 224 which this group has been sharing with Hembasidiomycetes

1 Auricularineae Auriculariales Auriculariaceae Ear fungi Jew s ear

Pilacreaceae (Pilacreaceae) Auriculariaceae Changed from 589 2231

2 Tremellineae Tremellales Tremelleae Trembling or jelly fungi

Hyalorineae Tremellaceae (Tremellaceae) Surobasidiaceae Changed from 589 2232

224 Hembasidiu Hembasidiomycetes Teliosporeae Brand fungi

225 Uredinales Uredineae Rusts

Melampsoraceae (Uredinaceae) Coleosporiaceae Cronartiaceae Schizosporaceae Endophyllaceae Pucciniaceae (Aecidiaceae)

227 Ustilaginales Smuts on corn, wheat, oats

1 Ustilaginaceae Ustilagineae Ustilaginaceae Smuts

2 Tilletineae Tilletiaceae Bunts

229 Protomycetes Protomycetaceae Protomycetaceae

DECIMAL CLASIFICATION

589 23	Ascomycetes	Ascosporeae	Parasitic or ascus fungi
231	Tuberineae	Tuberales	Truffles or tubers
	Balsamiaceae	Eutuberaeae (Tuberaceae)	See also 589 233
	Euascales		
232	Laboulbeniales	Laboulbenineae	Beetle fungi
	Ceatomyxetaceae	Laboulbeniaceae	Pyrenopezizaceae
233	Euascales	Discomycetes	Carpoascomycetes
1	Helvellineae	Helvellales	
	Helvellaceae	Geoglossaceae	Rhizoglossaceae
2	Pezizineae	Pezizales	Pezizeae Cup fungi
	Cyrtoperidaceae	Cordieriaceae	Cenangiaceae Patellariaceae
	Celastriaceae	Mollisiaceae	Helotiaceae Ascobolaceae Pezizaceae Pyrenopezizaceae
3	Hysterineae	Hysteriales	Shit fungi
	Acrosporiaceae	Hysteriaceae	Ostropaceae Dictyonetaceae
4	Protocalicineae	Protocaliciaceae	Powdery fungi
5	Phacidineae	Phacidiales	Little cup fungi
	Phacidaceae	Tryblidaceae	Stictaceae
235	Pyrenomyxetinae	Pyrenomyxetales	Pyrenomyxetes
	Closed fungi ergot, black knot (cherry, plum) black rot (grape)		
1	Sphaeriaceales	Xylariaceae	Melogrammataceae Diatrypeaceae Melanconidiaceae Valsaceae Clypeosphaeriaceae Gnomoniaceae Massariaceae Pleosporaceae Mycosphaerellaceae Lophostomataceae Amphispheeriaceae Coryneliaceae Cucurbitariaceae Ceratostomataceae Sphaeriaceae Chaetomiaceae, Sordariaceae
3	Dothideaceales	Dothideaceae (Dothidiaceae)	
4	Hypocreaceales	Hypocreaceae	
5	Perisporineae	Perisporales	Perisporineae Mildews, powdery mildew
	Microthyriaceae	Perisporiaceae	Paropsidaceae Erysaceae (Erysphaceae)
236	Hemiascomycetes	Hemiascales	
1	Saccharomyxetinae	Saccharomyxetae	Saccharomyxetes Saccharomyxetaceae Yeast fungi
2	Protoascineae		
	Ascoideaceae	Endomyxetaceae	Dipodascaceae Eremasaceae
237	Protodiscineae	Exoascineae	Exoascales Exoasceae Pocket fungi peach leaf curl plum pocket, witch's broom (witch's besom, hexenbesen) of cherry etc
	Ascoartaceae	Taphrinaceae (Exoascaceae)	
238	Plectasceineae	Gymnoasceae	Aspergillales Little tubers
	Myrangiaceae	Terfeziaceae	Elaphomyxetaceae Trichocomaceae (Trichocommataceae) Onygenaceae Aspergillaceae Gymnoasceaceae

- 589 24 Deuteromycetes Fungi imperfecti
Oosporeae see note under 589 2
- 241 Fungi imperfecti conidic type
1 Hyphomycetes Moniliales Molds potato, peach,
apricot scab
Tuberculariaceae Stilbaceae Dematiaceae Mucedinaceae
- 242 Sphaeropsidales Spot fungi black fungi, cranberry
scald
Excipulaceae Leptostromataceae Nectriaceae (Nectrioid
aceae) Sphaeriaceae (Sphaeriaceae) Sphaeropsidaceae
- 243 Melanconiales Melanconieae Melanconiaceae
Black dot fungi
Anthracnose of grape raspberry and blackberry butternut
blight ripe rot root rot of tobacco violet lup n brown rot
of stone fruits
- 244 Fungi imperfecti mycelic type
- 25 Phycomycetes Phycomyceteae Siphonomycetes
Algae-like fungi tube fungi
- 251 Oomycetes Egg spore fungi
- 252 Peronosporineae Peronosporales Peronosporaceae
Downy mildews, blights on tobacco, grape vine, potato,
cucumber
Pythiaceae Peronosporaceae (downy mildews) Albuginaceae
(white rusts)
- 26 Saprolegninaeae Saprolegniales Saprolegniaceae
Watermolds
Leptomitaceae Saprolegniaceae
- 262 Ancylistineae
Ancylistaceae Lagenidaceae
- 263 Monoblepharidinae Monoblepharidaceae
- 27 Zygomycetes
See note under 589 2
- 28 Zygomycetes Mucorales Lowest fungi moldlike
saprophytes
- 281 Mucorineae Black mold
Piptocephalidaceae Chaetocladiaceae Mortierellaceae Cho-
anophoraceae Mucoraceae
- 282 Entomophthorineae Entomophthorales Ento-
mophthoraceae Entomophthoraceae Fly fungi
- 283 Endogonineae Endogonaceae
- 284 Basidiobolus Basidiobolaceae
- 285 Chytridinae Chytridiales Plasmodiophorales
Phytomyxinae
Plasmodiophoraceae Synchronaceae Olpidiaceae Rhiz-
idiaceae (Chytridiaceae) Hypochytridiaceae Cladochytridiaceae
(Oochytridiaceae) See also 589 29 Myxomycetes
- 29 Phytosarcodina Myxothallophyta Myxomycetes
Myxophyta Mycetozoa Slime mold
This whole group is classified by both botanists and zoologists. The
following may be classed in botany other mycetozoa should be classed in
zoology under 593 11. See also 589 285 Plasmodiophorales (Plas-
modiophoraceae) Phytomyxinae
- 292 Acrasiales Acrasaceae Sorophora
Dictyostelaceae Guttulinaceae

589 293

Myxogasteres Myxogastres Myxogastrales
Euplasmodida

1 Ectosporeae Erosposereae Ceratiomyxaceae

2 Endosporeae

Physaraceae Didymaceae Spumariaceae Brefeldaceae
Stemonitaceae Reticulariaceae Trichiaceae Cribariaceae
Clathroptychiaceae Liceaceae

3 **Algae**

4 Carposporeae

See note under 589 2

41 Rhodophyceae Red algae

411 Florideae Euflorideae Red seaweeds

412 Ceramiales Sea mosses

Delesseriaceae (Delessariaceae) Rhodomelaceae Ceramiaceae

413 Rhodymeniales Rhodymeninae Higher red seaweeds

Rhodymeniaceae Sphaerococcaceae

414 Gigartinales Gigartiniaceae Soft red seaweeds

Rhodophyllidaceae Gigartiniaceae Acrotylaceae

415 Cryptonemiales Hard red seaweeds

Corallinaceae Solenoporaceae Squamariaceae Rhizophyl-
lidaceae (Rhizophyllidaceae) Nemastomataceae (Nemasto-
maceae) Dumontaceae Grateloupiaaceae Gloriosphonaceae

416 Nemalionales Nemalioninae Lower red seaweeds

Wrangelaceae (Bonnemaisoniaceae) (clad by Bessey under
Ceramiales 589 412) Gelidiaceae Chaetangiaceae Thore-
aceae Helminthocladiaceae Lomentaceae

42 Bangiales Bangioideae

Bangioideae is Bessey's name for this class which he divides into
2 orders Rhodochaetales (including Compsopogonaceae and
Rhodochaetaceae) and Bangiales (with only 1 family Bangiaceae)

45 Phaeophyceae Euphaeophyceae Brown algae

451 Dictyotales Dictyotinaeae Tetrasporinaeae Dictyo-
taceae

452 Fucales Cyclosporeae Cyclospornaeae Rockweeds

Sargassaceae (Sargassum) Fucaceae (Fucus) Humanthali-
aceae Durvillaceae (Durvillaceae)

453 Tilopteridales Phaeozoosporinaeae

Choristocarpaceae (clad by Bessey under Ectocarpales
589 457) Tilopteridaceae Clad here Phaeosporaeae given
by Bessey as a class name including orders 589 453-457

454 Laminariales

Chordaceae Laminariaceae Prototaxitaceae Clad by
Bessey under Ectocarpales (589 457)

455 Cutleriales

Splachnidiaceae Cutleriaceae

456 Sphacelariales Sphacelariaceae

Clad by Bessey under Ectocarpales (589 457)

457 Ectocarpales Kelps

Giffardiaceae Hydroclathraceae Asperococcaceae (Stri-
ariaceae Myriontrichiaceae) Dictyosiphonaceae, Articulad-
aceae Scytosiphonaceae Punctariaceae Sporochneaceae
Desmarestiaceae Encoeliaceae Spermatochneaceae (Stilo-
phoraceae) Elachistaceae Myrionemataceae (Ralfsiaceae)
Corynophlaeaceae Mesoglossaceae (Chordariaceae), Ecto-
carpaceae

589 47	Chlorophyceae	Euchlorophyceae	Isokontae
	Green algae		
471	Siphonophyceae	Siphoneae	Tube algae
-472	Siphonales	Vaucherioidae	Codiales Lower tube algae, green felts
2	Vaucheriaceae		
3	Codiaceae		
4	Phyllosiphonaceae		
5	Derbesiaceae		
6	Caulerpaceae		
7	Bryopsidaceae	Sea ferns	
	Clas here Bryopsidaceae given by Bessey as a clas name for higher tube algae		
-473	Siphonocladales	Siphonocladeae	
2	Sphaeropleaceae		
	Clas here Sphaeropleales given by West as an order under Ulotrichales (589 474) with only 1 family Sphaeropleaceae		
3	Cladophoraceae		
	Clas here Cladophorales given by Bessey and West as an order in which Bessey includes Cladophoraceae and Sphaeropleaceae (589 4732) and classes under Vaucherioidae (589 472) while West includes only 1 family Cladophoraceae and classes under Ulotrichales (589 474)		
4	Dasycladaceae		
	Clas here Dasycladales, given by Bessey as an order including Dasycladaceae etc		
5	Siphonocladaceae		
6	Valoniaceae	Large bladder algae	
	Clas here Valoniales given by Bessey as an order including Valoniaceae etc		
474	Ulotrichales	Confervales	Confervoidae
2	Chaetophorales		
22	Oedogoniaceae		
	Clas here Oedogoniales, given by West as an order with only 1 family Oedogoniaceae		
23	Cylindrocapsaceae		
24	Coleochaetaceae	Coleochaeteae	
	Clas here Coleochaetales given by Bessey as an order with only 1 family Coleochaetaceae		
25	Aphanochaetaceae	Herposiraaceae	
26	Chaetopeltidaceae		
27	Trentepohliaceae	Chroolepidaceae	Wittrockie/laceae
28	Chaetophoraceae	Microthamniaceae	
3	Eu ulotrichales		
32	Blastosporaceae	Prasiolaceae	
	Clas here Prasiolales given by West and Oedogoniales, given by Bessey as an order with only 1 family Prasiolaceae		
33	Micropsoraceae		
	Clas here Micropsorales, given by Bessey as an order with only 1 family Micropsoraceae		
34	Ulotrichaceae		
35	Ulvaceae		
	Clas here Ulvales, given by Bessey as an order with only 1 family Ulvaceae		

589 475	Protococcales	Protococcoideae	Green slimes
2	Euprotococcales	Chlorococcales	
22	Autosporinae	Coelastraceae, Dictyosphaeriaceae, Selenastraceae, Oocystaceae, Chlorellaceae, Eremosphaeraceae, Protothecaceae	
23	Zoosporinae	Hydrodictyaceae, Protosiphonaceae, Pleurococcaceae, Protococcaceae (Chlorococcaceae), Chlorosphaeraceae, Rhodochytriaceae	
3	Volvocales		
32	Tetrasporales	Tetrasporaceae, Myurococcaceae, Palmellaceae (Palmellales)	
33	Chlorodendrales	Chlorodendraceae	
34	Chlamydomonadales	(Coenobiales) Volvocaceae (Sphaerellaceae, volvox) Phacotaceae, Hyalovolvocaceae Chlamydomonadaceae (eudorina, pandorina), Polyblepharidaceae	
48	Heterokontae	Heterocontae	Yellow-green algae
482	Heterosiphonales		
	Botrydiaceae (Hydrogastreae)	Little bladder algae	
	Geosiphonaceae		
483	Heterotrichales		
	Monociliaceae, Tribonemaceae		
484	Heterococcales		
	Ophocytaceae, Harpochytraceae	Chlorotheciaceae Chlorobotrydiaceae	
485	Heterochloridales		
2	Heterocapsales	Botryococcaceae	
3	Mischococcales		
4	Chloramoebales	Heterochloridaceae	
5	Oosporeae		
	See note under 589 2		
6	Zygophyceae	Conjugate algae	
	Zygosporeae see note under 589 2		
61	Conjugatae	Conjugateae	Euconjugatae
612	Zygnematales	Zygnemales	Pond scum
	Zygnemataceae (Zygnemaceae zygnema) Spirogyraceae (spirogyra) Mesocarpaceae Mougeotiaceae Gonatozygaceae		
613	Desmidiaceae	Placoderm desmids	
	Desmidiaceae Cosmaraceae (Cosmarineae) Closteriaceae (Closteriaceae Penete)		
614	Mesotaeniales	Mesotaeniaceae	Saccoderm desmids
62	Bacillariophyta	Bacillarioideae	Bacillariales
	Diatomales	Diatomeae	Diatoms
622	Centricae	Eupodiscales	Cryptoraphideae Round diatoms
2	Biddulphioidae	Rutilariaceae, Anauliaceae, Euodiaceae, Biddulphiaceae, Chaetocerotaceae	
3	Solenioidae (Solenioidae)	Soleniaceae, Rhizosoleniaceae	
4	Discoideae	Eupodiscaceae, Actinodiscaceae, Coscinodiscaceae, Melosiraceae	

589 623	Pennatae Naviculales Raphideae Pseudoraphideae
	Flat diatoms
2	Surrellloideae Surrellaceae
3	Nitzschioideae Bacillariaceae Nitzschaceae
4	Naviculoideae Cymbellaceae Gomphonemaceae, Naviculaceae
5	Achnanthoideae Achnanthaceae
6	Fragilarioidae Eunotiaceae Fragilariaceae <i>Dia-</i> tomaceae Meridionaceae Tabellariaceae
67	Zooporeae
	See note under 589 2
.7	Protophyta Protista Schizophyta
8	Chlorophyllaceae Schizophyceae Myxophyceae
	Cyanophyceae Phycochromaceae Archiplastideae
	Containing chlorophyll, slime algae, blue green or fission algae
82	Coccogonales Coccogoneae Chroococcales Chroococ- caceae
83	Hormogonales Hormogoneales Hormogoneae Stigonemataceae (Siroisiphonaceae) Rivulariaceae Camp- totrichaceae Nostocaceae Scytonemataceae Oscillatoriaceae (Lyngbyaceae)
84	Chamaesiphonales Chamaesiphonaceae Pleurocapsaceae
.85	Holoplastideae Glaucocystales Glaucocystaceae
9	Achlorophyllaceae Lacking chlorophyll
91	Saccharomycetes Yeast
	Preferably clast n 589 2361
95	Schizomycetes Bacteriales Fission fungi bacteria, microbes Bacteriology
952	Thiobacteria Thiobacterales Rhodobacteriaceae Beggiatoaceae Achromatiaceae
953	Eubacteria Eubacterales Mycobacteriaceae (Mycobacteriales) Phycobacteriaceae (Chlamydobacteriaceae Chlamydobacteriales) Actinomy- cetaceae (Actinomycetales) Mycobacteriaceae Bacteri- aceae Spirillaceae Coccaceae Nitrobacteriaceae
958	Special applications of bacteriology In general libraries best clast with subject e.g. Soil bacteri- ology 631.46 but may be kept together here by dividing like main classification e.g. Agricultural bacteriology 589 95863
97	Flagellae
	Groups given here are claimed by both botanists and zoologists. Botanic discussions may be clast here and zoologic under 593 16 or either number may as prefer be chosen to include all the material
972	Silicoflagellatae Dichtyochidae
2	Siphonotestales Dichtyochaceae
3	Stereotestales Ebnaceae

DECIMAL CLASIFICATION

589 973	Dinoflagellatae	Peridinales	Peridiniales
	Peridineae	Peridineae	Dinophyceae
	flagellatae		Cilio-
	See also in zoology 593 17 Ciliata Cilioflagellata		
2	Diniferidea	Deniferina	
22	Peridinoidae	Peridinaceae	
23	Gymnodinoidae		
232	Blastodinuidae		
233	Pouchetuidae		
234	Noctilucidae		
235	Polykrikidae	Polykrikos	
236	Gymnodinidae	Gymnodiniaceae	
237	Protodiniferidae		
3	Adiniferidea	Adinida	Adinina
32	Thecatoidae	Prorocentricae	Prorocentraceae,
	prorocentrum		
33	Athecatoidae	Exuviaella	
5	Doutful dinoflagellatae		
	Amphilothonidae	Cystoflagellata (Rhynchoflagellata), Cysto-	
	dini dae		
974	Flagellatae	Phytoflagellatae	Euflagellatae
2	Euglenales	Euglenineae	
	Peranemataceae (Peranemaceae)	Astasiaceae	Euglenaceae
	(euglena)		
3	Chloromonadales	Chloromonadaceae	Vacuolaria
4	Cryptophyceae		
42	Cryptococcales		
43	Phaeocapsales		
44	Cryptomonadales	Nephroselmidaceae	Cryptomonad-
	aceae		
5	Chrysophyceae		
52	Rhizochrysidales		
53	Chrysotrichales	Phaeothamnionaceae	
54	Chrysosphaerales		
55	Chrysomonadales		
552	Chrysocapsales	Hydruraceae, Chrysocapsaceae,	
	Coccolithophoraceae		
553	Ochromonadales	Ochromonadaceae	
554	Hymenomonadales	Euhymenomonadaceae (Hymenomonadaceae), Isochrysidaceae	
555	Chromulinales	Mallomonadaceae, Euchromul-	
	naceae (Chromulnaceae)		
6	Protomastigales		
	Protomastigaceae	Tetramitaceae	Trimastigaceae
	Amphi-		
	monadaceae	Bodonaceae	Monadaceae
	Phalansteriaceae		
	Craspedomonadaceae	Bicoecaceae	Oicomonadaceae
7	Diastomatales	Diastomataceae	
8	Pantostomatales	Rhizoflagellatae	
	Rhizomastigaceae	Holomastigaceae	

590 Zoology

590.1 Philosophy classification 2 Compendia 3 Dictionaries 4 Essays.
lectures, etc. 5 Periodicals 6 Societies 7 Study and teaching zoolog c
gardens aquaria, museums 8 Collectiv works 9 History

591 Physiologic zoology

Divided where needed like 581

- 1 Physiology
- 11 Circulation
- 12 Respiration
- 121 Nature
- 122 Dermal
- 123 Aquivascular
- 125 Branchial
- 126 Tracheal
- 127 Pulmonary
- 129 Exhalation of aqueous vapor
- 13 Nutrition
- 131 Acquisition of food
- 132 Digestion of food
- 133 Assimilation of food
- 134 Growth
- 135 Development
- 136 Repair of waste
- 137 Production of organic material
- 138 Conditions of nutritiv activity
- 139 Longevity vitality
- 14 Secretion and excretion
- 141 Mucous and sebaceous
- 142 Sericeous
- 143 Digestiv salivary gastric pancreatic
- 144 Protectiv and attractiv
Odoriferous, sweet luminous, electric etc
- 145 Poisonous gall formation caprification
- 146 Mammary spermatic
- 147 Lacrimal
- 148 Biliary
- 149 Urinary and fecal
- 15 Variation See also 575 2 Evolution
- 151 Polymorphic
- 152 Geografic
- 153 Heterofagic
- 154 Polygoneutic
- 155 Munetic
- 156 Sexual
- 157 Colorational
- 158 Hybrids
- 159 Monstrosities

- 591 16 **Generation**
 161 Abiogenesis
 162 Parthenogenesis neuters
 163 Metagenesis pedogenesis, nurses
 165 Fission and gemmation
 166 Fecundation
 167 Hermaphrodites
 168 Viviparity
 169 Superfetation
 17 **Histogenesis**
 171 Development of sperm cells
 172 Development of germ cells micropyle
 179 Reparation of wounds
 18 Nervous functions and sensation
 19 Physiologic chemistry
 2 **Pathology**
 3 **Embryology**
 33 Development of embryo
 34 Metamorphosis larva pupa molting
 35 Hypermetamorphosis
 36 Production of sexes
 See also 575.9 Origin of sexes
 -4 **Morphology Comparativ anatomy Homologies**
 41 Circulatory organs
 42 Respiratory organs
 43 Nutritory organs
 44 Secretory and excretory organs
 45
 46 Generatory organs
 47 Motory organs and integumentary system
 Skeleton dermoskeleton
 48 Nervous system
 49 Regional anatomy
 5 **Habits and behavior**
 Including popular books animal stories except fiction
 51 Instinct Reason
 52 Abode Migration
 53 Food
 54 Seasons Hibernation
 55 Sociability
 56 Philoprogenitiveness Breeding
 57 Means of protection Fascination
 58
 -59 **Other habits**

- 591 6 Economic
- 61 Usefulness
- 62 In nature
- 63 As food and medicin for man
- 64 In chemistry and manufactures
- 65 Noxiousness
- 66 Offensiv animals
- 67 Animals causing diseases [substances
- 68 Injuring vegetable and animal products and inorganic
- 69 Injuring living plants and animals Parasites
- 7 Organograpy Descriptiv anatomy
Subdivided like 591.4 Morfology
- 8 Histology See also 578 9 Microscopic zoology
- 9 Geografic distribution of animals
Subdivided like 581 9

592 Invertebrates

593 Protozoans Radiates

- 1 Protozoans
- 11 Rhizopoda
- 12 Foraminifera
- 13 Heliozoa
- 14 Radiolaria Polycystina
- 15 Infusoria
- 16 Flagellata
- 17 Cihata
- 18
- 19 Gregarinidæ
- 2 Radiates
- 3 Coelenterata Acalepha (old use of term now limited to 593 73)
- 4 Sponges Porifera Spongia
- 5 Cnidaria
- 6 Actinozoa Polyps Corals and sea anemones
- 61 Rugosa Tetracorolla
- 62 Alcyonaria Octocorolla
- 63 Zoantharia Hexacorolla
- 64 Antipatharia
- 65 Actinaria
- 66 Madreporana
- 7 Hydrozoa
- 71 Hydromedusæ
- 72 S phonophora
- 73 Acalepha
- 74 Calyczoa
- 76 Marsupialida
- 77 Discophora Jelly fish

593 8	Ctenophora	Jelly fish
9	Echinodermata	
91	Crinoidea	sea lilies
92	Asteroidea	star fish
93	Stelleridea	
94	Ophiuridea	
95	Echinoidea	sea urchins
96	Holothuroidea	sea cucumbers
97	Pedata	
98	Apoda	
99	Enteropneusta	

594 Mollusks

1	Lamellibranchiata	Bivalvs	
2	Scaphopoda	Toothshells	
3	Gastropoda	Univalvs	snails, slugs See also 632 643 Pests
31	Amphineura	Chitons	
32	Prosobranchia		
324	Aspidobranchia		
329	Pectinibranchia		
34	Heteropoda		
35	Opisthobranchia	Sea slug	sea lemon
36	Nudibranchia		
37	Tectibranchia	Sea hare	bubble shell
38	Pulmonata	Snails	
4	Pteropoda	Wingd shells	
5	Cephalopoda	Squids and cuttlefish	
51	Tetrabranchia		
52	Nautilidae	Nautilus	
53	Ammonites		
55	Dibranchia		
56	Octopoda	Octopus	cuttlefish squid
58	Decapoda	Ten armd cephalopod	cuttlebone
6	Molluscoidea		
7	Bryozoa (Polyzoa)	Sea mats	
71	Gymnolaemata	Sea mats	
711	Cyclostoma		
712	Ctenostomata		
713	Chlostomata		
72	Phylactolaemata	Fresh water polyzoans	
73	Pterobranchia		
74	Entoprocta		
8	Brachiopoda	Lamp shells	

594 9	Tunicata	Sea grapes
91	Ascidia	Sea squirt sea pear sea peach sea potato
92	Copelatae	Taild asc dian
93	Monascidae	Sea squirt
94	Synascidae	Composit ascidian
95	Pyrosoma	Firebodies
96	Salpae	Salp
97	Doliolum	Doliolid

595 Articulates

1	Vermes	Worms	See also 632 65 Pests
11	Helminthes	Parasitic worms	
12	Platyhelminthes	Flatworms	
121	Cestoda	Tapeworm	
122	Trematoda	Fluke	
123	Turbellari	Black planarian	
124	Nemertini	Nemertean worm	
13	Nematodes	Trichina thred worm pin worm	
131	Gordiaceae	Hairworm	
133	Acanthocephali	Barbd headed worm	
135	Chaetognathi		
14	Annelida	Jointed worms	
15	Hirudinea	Leeches	
16	Oligochaeta	Earthworm lugworm	
17	Polychaeta		
174	Gephyrea	Spoon worm	
176	Phoronis	Actinotrocha worm	
178	Myzostomida		
18	Rotifera	Wheel animalcules	
185	Echinoderes		
188	Gastrotricha		
189	Dinophilus		
19	Orthonectida		
195	Dicyemida		
2	Arthropoda		
3	Crustacea		
31	Entomostraca	Cyclops shrimps etc.	
315	Pantopoda	Sea sp der	
32	Phyllopoda	Leaf footed crustaceans	
323	Branchiopoda		
324	Cladocera	Water flea	
33	Ostracoda		
34	Copepoda	Copepod cyclops	
345	Copepoda parasita	Fish lice	
35	Cirripedia	Barnacles etc	

- 595 783 Macrolepidoptera Large lepidoptera
 785 Geometrina Mesuring worm, canker worm
 786 Noctuna Owllet moth
 787 Bombycina Silkworm, gipsy moth, tent caterpillar
 788 Sphingina Sphinx moth
 789 Rhopalocera Butterflies
 79 Hymenoptera Bees, wasps, etc
 791 Terebrantia Boring hymenoptera
 792 Entomophaga Boring insects
 793 Phytophaga Sawfly, horntail, gallfly
 794 Aculeata Stinging hymenoptera
 795 Chrysididae Cuckoo wasp
 796 Formicidae Ant
 797 Fossoria Digger wasp
 798 Vespidae True wasp
 799 Apidae Bee
- 596 Vertebrates
 597 Fishes Pisces
 09 Geographic distribution
 Divide like 930-999 using 092 for oceans further subdivided like 351.46 and .47 e. g. fishes of Gulf of Mexico 597 0923
- .1 Pharyngobranchii Lancelet
 Leptocardii Amphioxus, Acraniata
- .2 Marsipobranchii Lampreys
 Cyclostomes
- .3 Elasmobranchii Sharklike fishes
 31 Selachii Plagiostomes Notidani True sharks
 35 Tectospondyle Ray Rajidae Skate
 38 Holocephali Chimera
- .4 Ganoidei Sturgeons, garpikes, etc. (covered with hard bony plates)
 41 Amudae Bowfin
 44 Chondrostei Acipenseridae Sturgeon
 46 Crossopterygu Fringe-fin
 47 Euganoides Heterocerques Lepidosteii Garpike
 48 Dipneusti Dipnoi Lung fish
- .5 Teleostei True bony fishes
 53 Lophobranchii Pipe fish, sea horse
 54 Plectognathi File fish, globe fish, box fish
 55 Physostomi Salmon, herring, carp
 56 Anacanthini Cod, halibut, flounder
 57 Pharyngognathi Wrasses, parrot fish
 58 Acanthopterygu Perch bass, mackerel
- .6 Batrachia (Amphibia)
 .7 Ophiomorpha
 .8 Anura Toads, frogs
 .9 Urodela Salamanders

598 Reptils Birds

- .1 Reptils
 - .11 Lacertilia Lizards
 - .12 Ophidia Snakes
 - .121 Nonvenomus snakes
 - .126 Venomus snakes
 - .13 Chelonia Turtles
 - .14 Crocodilia Crocodiles
 - .15 Ichthyopterygia
 - .16 Sauropterygia
 - .17 Anomodontia
 - .18 Pterosauria
 - .19 Dinosauria
- 2 Birds Aves
 - 29 Geographic distribution
 - D vide like 930-999
 - 3 Grallatores Waders
 - 31 Fulcariae
 - Coot, rail, sungrebe
 - 32 Alektorides
 - Serema sun b ttern, trumpeter kagu crane, courlan
 - 33 Limicolae Shore birds
 - Plover sn pe sand p per stilt oyster catcher
 - 34 Herodiones
 - Heron bittern stork ibis spoonb ll flamingo umbrette
 - 4 Natatores Swimmers
 - 41 Anseres Lamellirostral swimmers
 - Duck, goose swan merganser screamer sheldrake
 - 42 Longipennes Long wingd swimmers
 - Jaeger skua gull, tern skimmer albatross, petrel
 - 43 Steganopodes Totipalmate swimmers
 - Tropic bird cormorant pelican darter gannet, man-o war bird
 - 44 Pygopodes Diving birds
 - Grebe loon auk murre puffin, penguin
 - 5 Cursores Ratitæ Runners
 - 51 Struthionidae Ostrich
 - 52 Rheidae Rhea
 - 53 Casuaridae Cassowary Dromaeidae Emu
 - 54 Apterygidae Kiwi Dinornithidae Moa
 - 6 Rasores Scratchers
 - 61 Gallinae Gallinaceus birds
 - True fowl, grouse, quail hoatun, fessant, turkey
 - 65 Columbae
 - Pigeon dodo

598 7	Scansores	Climbers		
71	Psittacidae			
	Parrot macaw parakeet cockatoo lory kaka nestor			
72	Picidae			
	Woodpecker puffbird ba bet jacamar honeyguide wryneck toucan			
73	Trogonidae	Trogon		
74	Cuculidae	Cuckoo		
8	Insectores	Perchers		
81	Acromyodi	Singing passerin birds		
	Waxwing thrush finch swallow warbler flycatcher oriole bobolink sparrow			
86	Mesomyodi	Non singing passerin birds		
	Crow raven antbird broadbill			
89	Picariae	Non passerin birds		
	Kingfisher roller swift hummingbird			
9	Raptores	Birds of prey		
91	Falconidae	Falcon family	Vulturidae	Vulture
	Hawk falcon eagle buzzard			
97	Night raptores			
	Strigidae owl			

599 Mammals Mammalia

1	Monotremata	Duckbill platypus, duckmole		
2	Marsupialia	Kangaroos, opossums		
3	Placentalia	Monodelphia		
31	Edentata	Armadillo anteater sloth		
32	Rodentia	Rat rabbit woodchuck		
33	Insectivora	Shrew mole		
.4	Cheiroptera	Bats		
5	Cetacea	Sirenia	Whales, etc	
51	Mysticete	Balaenoid whale, whalebone whale		
53	Denticete	Odontocete	Toothed whale	
55	Sirenia			
6	Subungulata			
61	Proboscidea			
	Elephant mammoth, mastodon			
615	Barytheria	Barypoda		
62	Hyracoidea			
	Hyrax cony			
625	Embrithopoda			
63	Notoungulata	Toxodonta		
632	Typotheria			
64	Homalodotheria	Homalodontotheria	Entelonychia	
642	Astrapotheria			
643	Toxodontia			
65	Litopterna			
655	Pyrotheria			
66	Amblypoda	Short footed ungulates		
67	Condylarthra	Slender ungulates		

599	7	Ungulata	Carnivora				
			See also 636 Domestic animals				
71		Ungulata	Hooft mammals				
72		Perissodactyla	Od toed ungulates				
722		Chelodactyla	Normal perissodactyls				
723		Hippoidea					
724		Palaeotheriidae					
725		Equidae	Monochela	Solidipeda		Solid ungula	
		Equines					
		Horse ass zebra quagga etc					
726		Titanotheroidea	Titanotheria				
2		Palaeosyopidae					
4		Titanotheriidae	Brontotheriidae				
727		Tapiroidea					
2		Tapiridae	Tapirs				
4		Lophodontidae					
728		Rhinocerotidea					
2		Hyracodontidae					
4		Rhinocerotidae	Rhinoceros				
729		Ancylopoda	Ancylodactyla	Chalicotheria		Chalico-	
		theroidea	Clawd perissodactyls				
73		Artiodactyla	Even toed ungulates				
		Bisulca, D chela					
732		Nonruminantia					
733		Selenobunodontia					
2		Anthracotheriidae					
3		Dichobunidae					
4		Trigonolestidae					
734		Suina	Bunodontia	Swine			
2		Cebochoeridae					
3		Leptochoeridae					
4		Suidae	Pigs				
5		Dicotylidae	Tagassuidae				
		Peccary					
6		Entelodontidae	Elotheriidae				
		Giant pigs					
7		Hippopotamidae	Hippopotamies				
735		Ruminantia	Selenodontia	Ruminants			
2		Oreodonta					
3		Anoplotheriidae					
4		Tylopoda	Cameloida				
		Camel dromedary llama alpaca vicuña etc					
5		Tragulina	Traguloidea				
52		Gelocidae					
54		Hypertragulidae					
56		Tragulidae					
		Chevrotain or mouse-deer					
6		Pecora					
7		Cervicornia	Antlerd or solid horned ruminants				
72		Guraffidae					
		Guraf okapi					
74		Cervidae	Deer				
76		Merycodontidae	Deer-antelope				
8		Cavicornia	Hollow horned ruminants				
82		Antilocapridae					
		Prongbuck or pronghorn antelope					
84		Bovidae	Bovinae				
		Cattle					

DECIMAL CLASSIFICATION

599 74	Carnivora	Flesh-eating mammals	beasts of prey
743	Creodonta	Primitiv	carnivora
744	Vissipedia	Land	carnivora
2	Aeluroidea	Ailuroidea	Herpestoidea
22	Viverridae		
		Civet genet linsang etc	
23	Nandiniidae		
		African palm or tree civet	
24	Herpestidae		
		Mongoose	
25	Cryptoproctidae		
		Poussa or fossa	
26	Protehidae		
		Aard wolf	
27	Hyaenidae		
		Hyena	
28	Felidae	Cats	
4	Arctoidea		
42	Canidae		
		Dog wolf fox jackal etc	
43	Procyonidae		
		Raccoon coati, kinkajou racoon stile bassarisk etc	
44	Ailuridae	Aeluridae	
		Common panda	
45	Ailuropodidae	Aeluropodidae	
		Pandarcotus great or giant panda	
46	Ursidae	Bears	
47	Mustelidae		
472	Mustelinae		
		Weasel marten sable mink stoat ermine polecat, ferret wolverine etc	
474	Melinae		
		Badger ratel etc	
475	Mephitinae		
		Skunk etc	
478	Lutrinae	Otters	
745	Pinnipedia	Fin or paddle-footed	carnivora aquatic or marine carnivora
746	Otariidae	Earl seals	
		Fur seal sea lion sea bear	
747	Odobenidae	Odobenidae	
		Walrus	
748	Phocidae	Earless or true seals	
8	Quadrumana	Apes	Primates
81	Prosimiae	Lemur	
82	Pitheciinae	howler	Cynopitheciidae monkey, baboon
	Catarrhina	gorilla chimpanzee orang	Platyrrhini
		American monkey	
88	Anthropomorpha	Anthropoid ape	
9	Bimana	Man	See also 573 Nat hist of man 610 Medicine

Useful Arts

Applied Science

600 Useful arts Applied science

601 Filosofy Theories, etc

602 Compends, outlines

603 Dictionaries, cyclopedias

604 Essays, lectures, addresses

605 Periodicals, magazines, reviews .

606 Societies Fairs Exhibitions

Special exhib't ions go with their top cs This is general only

607 Education Schools of technology

Divided like 940-999

608 Patents Inventions

609 History of useful arts in general

For its history see each special department

610 Medicin

For full list of form divisions see Table 2 following Relative Index Note special sub divisions below which may be applied as needed throughout 611-619

7 Study and teaching 71 Medical schools 714 Medical education for special classes women etc 73 Training schools for nurses Nursing Regular form divisions may be added here as needed e g 610 7307 Study and teaching of nursing 610 7309 History of nursing 74 Medical museums 75 Diagnosis 751 Pulse 752 Tongue 753 Eye skin etc 754 Auscultation percussion 755 Thermometry 756 Chemistry Urin analysis 757 Microscopy radiology, etc 758 Pathologic anatomy 759 Postmortem examination E g 616 0756 Chemico diagnosis of disease 616 241075 Diagnosis of pneumonia

611 Anatomy

See also 591 4 Comparative anatomy 591 8 Zoologic histology

SUMMARY

- 611 01 Theory
- 012 Teratology
- 013 Embryology
- 014 Anthropologic anatomy
- 016 Paleontologic
- 018 Histology
- 019 Comparative anatomy
- 1 Circulatory system
- 2 Respiratory
- 3 Digestiv
- 4 Glandular and lymphatic system
- 6 Genito urinary system
- 7 Motor and integumentary system
- 8 Nervous system
- 9 Regional anatomy

01

Theory

0111

Not on definition value

0112

Classification division

0114

Terminology

.012

Teratology Anomalies

Divided like 617 3 Orthopedic surgery

.013

Ontogeny Embryology

See also physiology 612 6 Reproduction and development

1

Germinativ cells

11

Sperm

12

Spermatogenesis See also 611 63 Male genital organs

15

Ovum

16

Ovogenesis See also 611 65 Female genital organs

17

Maturation Corpus luteum

2

Copulation Fecundation Fertilization

See also Fecundation in botany 581 166 in zoology 591 166

3

Germ layers

31

Segmentation Cleavage Blastula

314

Blastula

32

Gastrula

33

Primitive streak

34

Blastopore Primitive mouth

35

Archenteron Primitive gut

36

Neurenteric canal

37

Entoderm, entoblast, hypoblast or endoderm

38

Ectoderm, epiblast or ectoblast

39

Mesoderm or mesoblast

395

Mesenchyme

0134

Entodermic, entoblastic or hypoblastic organs

41

Notochord

5

Ectodermic, epiblastic or ectoblastic organs

Epidermal layer

51

Neural furrows, folds and canal or medullary plates

See also 611 8 Nervous system

- 611 0136 Mesodermic organs
- 61 Protovertebrae Mesoblastic somites, or primitiv
vertebrae
- 64 Somatopleure, body wall, or musclocutaneous plate
Outer lamella of lateral plates
- 65 Splanchnopleure, fibrous wall of alimentary canal, or
gut fiber plate
Inner lamella of lateral plates
- 66 Coelom, pleuropertitoneal or body cavity
See also 611 389 Coelom
- 68 Blood or primitiv vessel wall
See also 611 0185 Histology of blood
- 7 External form of embryo
- 8 Fetal appendages
- 81 Vitellin sac
- 32 Allantois
- 43 Amnion
- 835 Amniotic fluid
- 84 Chorion
- 85 Placenta Umbilic cord
- 9 Experimental embryology
- .014 Anthropologic anatomy
See also 572 Anthropology
- .016 Paleontologic anatomy
See also 560 Paleontology
- .018 Histology
Microscopic structure of organs
- 1 Cells Cytology
See also 576 3 Cytology For special cells see tissues to which
they belong
- 11 Protoplasm
- 13 Nucleus
- 15 Cell division See also 611 01331
- 16 Centrosome
- 18 Cilia Cellular membrane
- 2 Connectiv tissue
Connectiv, cartilage and bone tissue together known as 'sup-
porting tissues
- 21 Connectiv tissue cells
- 22 Connectiv tissue fibers
- 23 Ground substance or matrix
- 24 Reticular and adenoid tissue
Areolar or interstitial tissue Reticulum
- 25 Mucous or gelatinous tissue Mesenchyme
See also embryology 611 013395 Mesenchyme
- 26 Adipose or fat tissue
- 27 Elastic or yellow fibrous tissue
- 28 Fibrous or white fibrous tissue
- 29 Pigment and pigment cells
- 3 Cartilaginous tissue
True or hyalin cartilage cartilage cells or chondroblasts For
Elastic yellow fibrocartilage or reticular cartilage see
611 01827, for Fibrocartilage fibrous or white fibrocartilage
see 611 01828
- 34 Perichondrium

611 0184	Bone or osseous tissue
41	Bone cells
	Osteoblasts Osteoclasts Howship's lacunae Myelo-
	plaques of Robin
43	Ground substance or matrix
	Spongiosum, spongy substance or cancellated or spongy bone
	Compact substance
	Structure lacunae canaliculi lamellae Haversian canals
	Volkmann's canals
44	Periosteum
	Osteogenetic layer of cells fibers of Sharpey
46	Bone marrow or medulla
5	Blood
	See also physiology 612 11 Blood
	For sperm see 611 01311 and 612 616
57	Lymph
	See also 612.42 Lymphatic system
6	Muscular tissue Sarcoplasm
61	Smooth, unstriped, unstriated or involuntary muscle
62	Striped, striated or voluntary muscle
	Sarcolemma
63	Cardiac muscle
64	Histology of muscular contraction
7	Epithelial tissue
72	Glandular system
73	Mucous membranes
74	Serous " Endothelia
8	Nervous tissue
81	General structure Tectology Neurone
	Regeneration
82	Nerv cells
	Nissl's chromophilic bodies
83	Prolongations and nerv fibers
	Cylinder axis process cylinder axis Appendices varicosities
833	Neurilemma Schwann's sheath
834	Myelin Ranvier's nodes Medullary sheath
835	Adventitious sheath, perineurium Epineurium
	Endoneurium
837	Dendrites
84	Neuroglia Ependymal cells amyloids
86	Terminations
861	Motor terminations
866	Sensory
.019	Comparison with anatomy of lower animals
	Usually better class in 591.4
	Form divisions
.02	Compendia
.03	Dictionaries Cyclopedias
.04	Essays Addresses
.05	Periodicals
.06	Societies Clubs

611	07	Teaching	Methods
	073	Laboratories	Dissection
	077	Pedagogic	methods
	078	Instruments	Apparatus
	08	Polygraphy	
	09	History	
.I		Circulatory system	
.II		Pericardium	
.12		Hart	
	122	Left hart	
	123	Right hart	
.124		Ventricles	
		s Right	s Left
.125		Auricles	
		s Right	s Left
.126		Endocardium	
	3	Valve	
	4	Auriculoventricular valve	
	43	Mitral or b cuspid valve	
	46	Tricuspid valve	
	5	Valve of aorta and of pulmonary artery	
		Sinuses of Valsalva	
	52	Aortic valve	
	55	Pulmonary or semilunar valve	
	6	Valve of right auricle	
		s Eustach an	s Coronary
.127		Myocardium	
.13		Arteries	
.131		Pulmonary artery	
		s Right branch	s Left branch
.132		Aorta	
	1	Aortic arch	Ascending aorta
	2	Coronary arteries	
		s Right	s Left
	5	Innominate artery	
.133		Carotid arteries	
	1	Common carotid	
	2	External	"
	21	Superior thyroid	
	22	Lingual	
	23	Facial or external maxillary	
	24	Ascending pharyngeal	
	25	Posterior auricular	
	26	Occipital	
	27	Superficial temporal	
	28	Internal maxillary	
	281	Sphenopalatine arteries	
	282	Middle or great meningeal	
	3	Internal carotid	
	32	Ophthalmic artery	
	33	Cerebral arteries, anterior and middle	
		For posterior cerebral artery see 611 1349	

612.134

Subclavian arteries

- 1 **Axillary**
Superior thoracic acromiothoracic long thoracic or external
mammary alar thoracic subscapular posterior and anterior
circumflex
- 2 **Brachial or humeral**
Superior and inferior profunda nutrient anastomotica magna,
muscular
- 3 **Forearm arteries**
- 31 Radial
- 35 Ulnar
- 4 **Hand arteries**
- 5 **Internal mammary** Superior epigastric
- 6 **Costocervical trunk**
- 7 **Thyrocervical trunk**
- 8 **Posterior, or dorsal scapular, transversa colli**
- 9 **Vertebral** Basilar posterior cerebral circle of Willis

.135

Thoracic aorta and branches

- 1 **Parietal branches**
- 4 **Intercostal "**
Subcostal diaphragmatic vas aberrans
- 5 **Visceral branches**
Bronchial esophageal pericardial mediastinal

136

Abdominal aorta and branches

- 1 **Inferior vena cava**
- 2 **Lumbar**
- 3 **Middle sacral, caudal**
- 4 **Celiac axis**
Celiac mesenteric umbilical mesenteric or omphalomesenteric
- 41 **Hepatic**
Pyloric gastroduodenal superior pancreaticoduodenal right
gastro-epiploic cystic
- 42 **Splenic**
Pancreatic vasa brevia, left gastro-epiploic
- 43 **Left gastric** gastric or coronary gastric
- 5 **Mesenteric**
- 51 **Superior mesenteric**
Rami intestini tenuis or branches of small intestine inferior
pancreaticoduodenal middle right and ileocolic terminal and
appendicular branches
- 52 **Inferior mesenteric**
Left colic sigmoid superior hemorrhoidal

- 6 **Middle suprarenal**
- 7 **Renal**
- 8 **Spermatic**
- 9 **Ovarian**

137

Iliac arteries

- 1 **Common iliac**
- 2 **Hypogastric or internal iliac**
- 3 **Parietal branches**
- 4 **Lateral sacral**
- 5 **Obturator**

611 1376

Gluteal

- 61 Superior gluteal
- 65 Inferior gluteal Sciatic

Visceral branches

- 71 Umbilic superior ves cal
- 72 Inferior ves cal and deferential
- 73 Uterin and vaginal
- 74 Middle hemorrhoidal
- 75 Internal pud c

External iliac artery

- 81 Inferior epigastric, or deep epigastric
- 82 Deep circumflex iliac
- 83 Femoral
- 84 Deep femoral, profunda femoris
 - s External c rcumflex s Internal circumflex
- 85 Arteria genu suprema, or anastomotica magna
- 86 Popliteal
- 87 Anterior tibial
- 9 Tibiofibular trunk, truncus tibiooperoneus
- 91 Posterior tibial
- 92 Peroneal
- 93 Arteries of foot
- 94 Dorsalis pedis
 - Tarsal metatarsal dorsal interosseous dorsal's hallucis
- 95 Plantar

Veins

- 14 Pulmonary
- .141 Cardiac or venae cordis
- .142 Subintestinal, or fetal portal vein
- .143 Cardinal
- .145 Superior vena cava
 - Innom oate ve ns Veins of neck
- 1 Internal jugular vein
 - Thyroid ve ns
- 11 Cerebral veins Sinuses of dura mater
- 13 Emissary ve n
- 15 Superior ofthalmic
- 16 Inferior "
- 17 Facial
- 2 External jugular
- 3 Posterior external jugular and vertebral
- 4 Subclavian and axillary
- 41 Deep veins of upper extremity
- 46 Superficial veins of upper extremity
 - s Basil c s Cephalic
- 6 Azygos
- 7 Spinal veins

- 611.146 Inferior vena cava
- 1 Lumbar veins
 - 2 Renal "
 - 3 Suprarenal "
 - 4 Hepatic "
 - 5 Inferior frenic
 - 6 Spermatic
 - Pampiniform or spermatic plexus
 - 7 Ovarian
- .147 Iliac veins
- 1 Hypogastric or internal iliac
 - Hemorrhoidal plexus
 - 2 External iliac
 - 3 Femoral Popliteal
 - 33 Long or internal saphenous
 - 37 Tib al veins
 - 38 Short or external saphenous
 - 39 Veins of foot
- .149 Portal vein
- 1 Superior mesenteric
 - 2 Inferior "
 - 3 Ventricular coronary gastric or venae gastricae Pyloric
 - 4 Splenic or lienalis
 - 5 Cystic
 - 7 Fetal hepatic veins Omphalomesenteric
 - Ductus venosus Arantii or sinus venosus large vein passing directly thru fetal liver
 - 8 Umbilic
- 15 Capillaries
- .2 Respiratory system
- 21 Nose
 - See also 611.86 Organs of smell
- 211 External nose
- 22 Larynx
- .221 Cartilages
 - Epiglottis thyroid arytenoid cuneiform cornicular
 - 223 False vocal cords
 - 224 Ventricles
- .225 Cavity of larynx Glottis
 - True vocal cords Rima glottidis or chink of glottis
 - 227 Ligaments
- .229 Muscles of larynx
- 23 Trachea and bronchi
- .231 Trachea
- .233 Bronchi
 - See also 611.24 below
- 24 Lungs, or pulmones
- 25 Pleura
- 26 Diafram
- 27 Mediastinum
- 28 Gills
 - See comparative anatomy 591.43 Respiratory organs
- 29 Other organs including a bladder swimming bladder See 591.43

611.3	Digestiv system	
.31	Mouth, buccal cavity or cavum oris	
.313	Tung	
	Papillae	
.314	Teeth	
.315	Palate, palatum, or roof of mouth	Soft palate, or
	velum pendulum palati	Uvula
.316	Salivary and other glands of mouth	
	Submaxillary and sublingual glands	
	Parotid glands	Stenson's duct
.317	Lips	
.318	Cheeks	
.32	Pharynx	Esophagus
.321	Pharynx	"
.322	Tonsils	
	Faucal tonsils	
	Pharyngeal or Luschka's tonsils	
	Lingual buccal or 4th tonsil	
	Other tonsils laryngeal nasal	
.323	Topography or regions of pharynx	
	Nasal or epipharynx	
	Oral buccal or meso pharynx	
	Laryngeal or hypo pharynx	
	Back	
	Esophagus	
.329	Esophagus	
	1 Cervical	2 Thoracic section
	including diaphragm	3 Abdominal section,
33	Stomach	
	Gastric glands true oxyntic or peptic pyloric cardiac	
.333	Cardia	
.334	Pylorus	
.335	Greater curvature	or lower convex surface
.336	Lesser	" " upper concave "
34	Intestin	
.341	Small intestine	
	1 Meckel's diverticulum	
	2 Peyer's patches or tonsillae intestinales	
	3 Plicae circulares	
	4 Glands of Lieberkuhn and solitary glands	
.342	Duodenum	Brünner's glands
.343	Jejunum	
.344	Ileum	
.345	Cecum	
	Ileocecal valve	
	Vermiform appendix	
.347	Large intestine	
	Including cecum	Appendices epiploicae
348	Colon	
	Ascending	
	Transverse	
	Descending	
	Sigmoid flexure	
.349		
35	Rectum	Anus
.351	Rectum	Houston's or rectal valve
.352	Anus	
.353	Perineum	See also 611.96

611.36

Liver

- 361 Bile ducts Bile capillaries or canaliculi
- 362 Hepatic duct
- 366 Cystic duct Gall bladder
- 367 Common bile duct, or ductus communis choleducus
Process and ampulla of Vater

.37

Pancreas

- 373 Pancreatic duct, or canal of Wirsung
- 375 Duct of Santorini
- 376 Glandular portion
- 377 Intervascular cell islets, intertubular cell masses islets of Langerhans

.38

Peritoneum Mesentery Omentum Coelom

.381

Peritoneum

- 382 2 Parietal 5 Visceral
- 383 Omentum epiploon
Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
- 384 Mesentery
Transverse and sigmoid mesocolon, mesorectum, mesoappendix
- 389 Retroperitoneal fossae
- 389 Coelom or pleuroperitoneal cavity

.39

Adipose bodies

.4

Glandular and lymphatic system

Put glands of any special system with that system See 611.36, Liver, 611.61, Kidneys 611.316, Salivary glands, 611.69 Mammary glands. But class here chromaffin tissue in general

.41

Spleen

- 415 Malpighian bodies
- 418 Capsule of spleen

.42

Lymphatic vessels or lymphatics and capillaries

For lymphatics of an organ or tissue see name of organ or tissue
Lymphatic space

.421

Lymphatics by region

- 1 Head
- 2 Face
- 3 Neck
- 4 Thorax
- 5 Abdomen
- 6 Pelvic region
- 7 Upper extremity
 - 2 Arm 4 Forearm 6 Hand
- 8 Lower extremity
 - 2 Thigh 4 Leg 6 Foot
- 9 Tail
- 423 Receptaculum chyli or cistern of Pecquet
- 424 Thoracic duct (left)
- 425 Right lymphatic duct
- 426 Lacteals
 - 5 Villi

.43

Thymus

- 435 Accessory thymus

.44

Thyroid gland

- 445 Accessory or aberrant thyroids
- 447 Parathyroids

.45

Suprarenal capsules or bodies

Accessory suprarenal capsules

- 61 46 **Lymfatic glands**
 462 Glands of head
 463 " " face
 Internal maxillary Submental
 463 Glands of neck
 1 Suboccipital or occipital
 2 Mastoid retroauricular or postauricular
 6 Retropharyngeal
 7 Cervical or jugular
 8 Subclavian
 464 Glands of thorax
 1 Diaframatic
 2 Mammary lymph
 3 Intercostal
 4 Mediastinal
 465 Abdominal lymph glands
 1 Iliac and hypogastric sacral lumbar
 2 Abdomino-aortic
 21 Juxta-aortic
 22 Preaortic gastric splenic hepatic
 21 Retroaortic
 4 Glands of small intestine mesenteric
 6 Glands of large intestine colic rectal
 467 Lymph glands of upper extremity
 1 Axillary
 2 Epitrochlear or supratrochlear and other glands
 3 Pectoral
 468 Lymph glands of lower extremity
 1 Inguinal
 2 Femoral
 3 Popliteal
 4 Anterior tibial
 47 Carotid gland or body
 48 Coccygeal gland
 6 Genito-urinary system Breasts
 61 Kidneys
 Class here urinary organs in general
 615 Uriniferous tubules
 617 Ureter
 618 Pronephros
 619 Mesonephros
 62 Bladder Urethra
 621 Bladder
 3 Urethral openings
 622 Ligaments: urachus
 For pedicle of allantois see also embryology 611 613 616
 623 Urethra
 For female urethra see 611 674
 1 Prostatic part
 Verumontanum or caput gallinaginis
 Sinus pularis or uterus masculinus
 2 Membranous part
 3 Spongy cavernous or penial part
 4 Lacunae Littre's glands
 627 Bulbo-urethral or Cowper's glands
 629 Urogenital sinus

611.63

Male genital organs

- 631 Testicles or testes
 2 Seminiferous tubules
 Straight tubules tubuli recti or vasa recta com. vasculosa or vasa efferentia
 3 Tunics of testes vaginalis albuginea vasculosa
 5 Med. astinum testis or Highmore's body rete testis of Haller or Haller's network
 .632 Epididymis
 .633 Appendixes of testes
 Vasa aberrantia hydatids of Morgagni or pedunculated bodies paradidymis or organ of Giralde's
 634 Vas deferens
 .635 Ejaculatory ducts
 636 Seminal vesicles
 637 Prostate
 638 Scrotum
 4 Dartos
 639 Spermatic cord
 Infundibula intercolumnar or spermatic and cremasteric fascia

.64

Penis

- 641 Root
 642 Body Prepuce
 643 Glans penis, or acorn
 644 Meatus
 645 Corpora cavernosa
 646 Corpus spongiosum
 647 Bulb of urethra

.65

Female genital organs

Adnexa

- .651 Ovaries
 1 Medullary substance Stroma
 2 Graafian follicles
 Capsule of ovum membrana granulosa discus proligerus
 3 Cortical layer
 .652 Corpus luteum or corpora lutea
 See also embryology 611.01317
 .656 Fallopian tubes
 66 Uterus
 662 Endometrium
 664 Cornua
 665 Body or parenchyma
 .666 Neck cervix
 .667 Ligaments
 For placenta see embryology 611.01385 and gynecology 618.36
 2 Broad or lateral
 3 Round Canal of Nuck
 4 Uterosacral and uterolumbar Pouch of Douglas
 Posterior ligaments
 6 Epophoron parovarium or organ of Rosenmüller Gartner's duct
 7 Paroophoron
 669 Müller's duct Oviducts of lower vertebrates
 Class of ducts of lower vertebrates in 591.46 except in comparison with human organs

.67

Vagina

Vulva

- 671 Vagina
 672 Hymen Vestibulum
 673 Vulva
 1 Mons veneris 2 Labia majora 3 Labia minora
 674 Female urethra
 675 Clitoris Bulbus vestibuli
 677 Bartholins or vulvo-vaginal glands

69

Breasts

- 691 Nipple and areola Glands of Montgomery
 692 Acini acinous glands
 .693 Galactiferous or lactiferous ducts

611.7	Motor and integumentary systems		
.71	Osteology	Bones	Skeleton
.711	Spinal column		
1	Cervical vertebrae		
2	Atlas		
3	Axis or epistropheus		
5	Thoracic or dorsal vertebrae		
6	Lumbar vertebrae		
7	Sacrum or sacral vertebrae		
8	Coccyx		
.712	Ribs	Thorax	
3	Costal cartilages		
.713	Sternum or breast bone		
	Manubrium, gladiolus, xiphoid or ensiform		
.714	Bones of head Skull		
1	Calvaria or cerebral cranium		
	Sutures, fontanelles, supernumerary or Wormian bones		
3	Base of cranium		
6	Orbits		
7	Nasal cavity Inferior conchae		
.715	Cranium, cranial bones		
1	Occipital		
2	Sphenoid		
3	Temporal		
4	Parietal		
5	Frontal		
6	Ethmoid		
7	Lacrimal		
8	Nasal		
9	Vomer		
.716	Bones of face or visceral cranium		
1	Maxillary, upper jaw or superior maxillary		
2	Palate		
3	Malar or zygomatic		
4	Mandible, lower jaw or inferior maxillary		
41	Alveolar limbus		
43	Ramus of mandible		
5	Hyoid		
6	Skeleton branchiae Better class in 501.47		
.717	Bones of upper extremity		
1	Scapula, shoulder blade		
	Shoulder girdle as a whole Acromion		
2	Clavicle or collar bone		
3	Coracoid process		
4	Humerus		
5	Radius		
6	Ulna		
7	Carpus, carpal bones or wrist bones		
71	Scaphoid or navicular		
72	Semilunar, or os lunatum		
73	Cuneiform, or os triquetrum		
74	Pisiform		
75	Trapezium, or os multangulum majus		
76	Trapezoid or " " minus		
77	Os magnum, or os capitatum		
78	Unciform or hook or os hamatum		
79	Central		
8	Metacarpus, metacarpal bones		

611 7179

Phalanges of hand

- 91 Basilar or proximal phalanges
- 93 Middle phalanges
- 95 Ungual or distal phalanges
- 99 Sesamoid

.718

Bones of lower extremity

For pelvis see 611 96

1 Hip bone, or os coxae or innominatum

Acetabulum or cotyloid cavity

- 11 Ilium
- 12 Ischium
- 13 Pubis

4 Femur

45 Patella see also 611 7283 Knee joint and 611 983 Knee

5 Tibia

6 Fibula

7 Tarsus

- 71 Astragalus ankle bone or talus
- 73 Calcaneum, heel, or os calcis
- 75 Cuboid
- 76 Scaphoid or navicular
- 78 Cuneiform or wedge bones
 - Internal or first middle or second external or third cuneiform

8 Metatarsal bones

9 Phalanges of foot

- 91 Basilar or proximal phalanges
- 93 Middle or second
- 95 Ungual or third
- 99 Sesamoid bones

.72

Ligaments Joints

.721

Articulations of vertebrae and of cranium

- 1 Occipito-atlantal and occipito-axial
- 3 Intervertebral articulations
- 5 Atlanto-axial or atlas-axoid and atlanto odontoid
- 6 Lumbosacral
- 7 Sacrococcygeal
- 8 Coccygeal

.722

Costovertebral articulations

.723

Costosternal, costochondral, chondrosternal, interchondral, intersternal

.724

Jaw joint, temporomandibular, temporomaxillary or mandible joint

.727

Articulations of upper extremity

- 1 Sternoclavicular joint and costoclavicular or rhomboid ligament
- 2 Articulations of shoulder
 - 11 Shoulder joint
 - 24 Acromioclavicular or scapuloclavicular joint Coracoclavicular and coracoacromial ligaments
- 3 Elbow joint
 - 31 Humeroulnar joint
 - 33 Humeroradial joint
 - 34 Superior radioulnar or radioulnaris proximalis
- 4 Wrist joint
 - 41 Inferior or distal radioulnar joint
 - 44 Radiocarpal

611 7275

54
6
7
8
9

Intercarpal articulation

Middle carpal joints
Carpometacarpal articulations
Intermetacarpal
Metacarpophalangeal
Phalangeal or finger joints

.728

Articulations of lower extremity

1

Articulations of pelvis

Sacroiliac and pubic or symphy + oss um pubis sacrosciatic liga
ment or symphysis + sacrococcyges

2

Hip joint, or articulo coxae

Il ofemoral Y or B gelow s ligament I gamentum teres

3

Knee joint

31

Crucial or femorotibial I gaments

33

Semilunar fibrocartilages

34

Anterior or I gamentum patellae

38

Tibiofibular ligaments

4

Ankle joint

41

Inferior tibiofibular joint

41

Tibiotalar ligaments

5

Intertarsal ligaments

51

Astragalocalcaneal calcaneoastragalo d or talocalcaneum astraga
loscaploid calcaneoscaploid or calcaneonavicular I gaments

53

Calcaneocubo d ligaments

54

Mediotarsal articulations

55

Cuboidcuneiform

56

Scaphoidcuboid or cubonavicularis scaphoidcuneiform or cuneonavic
ularis articulations

58

Intercuneiform articulations

6

Tarsometatarsal articulations

7

Intermetatarsal

8

Metatarsophalangeal

9

Toe joints

.729

Classes of joints

2

Synarthrosis or fixt joint

4

Amphiarthrosis or mixt joint

6

Diarthrosis or movable joint

61

Arthrodia or gliding joint

62

Condyarthrosis or knuckle joint

63

Enarthrosis or ball and socket joint

64

Gnathymus or hinge joint

65

Trocho d or pivot joint

.73

Muscular system Myology

.731

Dorsal muscles

1

Spinohumeral or humerospinal muscles

11

Trapezius

12

Latiss mus dorsi

13

Rhomboid

14

Levator scapulae

2

Spinocostal or serrati posteriores

3

Spinodorsal

Sacrospinal s lumbosacral erector spinae transversalis cervicis

31

Il costal

36

Long ss mus dorsi

4

Splenius and complexus

611 7315

Spinalis dorsi

6

Transversospinales

61

Semispinalis

63

Multifidus

68

Rotatores

7

Breves spinæ

71

Interspinales

76

Intertransversarii

8

Oblique muscles of head

9

Recti capitis posterior and lateralis

.732

Muscles of head

See also 611 7318-9 and 611 7337 8

1

Platysma myoides

2

Occipitofrontalis or epicranial

3

Muscles of nose

Pyramidalis nasi compressor nasi compressor narium minor, depressor alae nasi or myrtiliform dilatator nasi

4

Muscles of ear Attractens atticellens retrahens

5

Palpebral and orbital muscles of eye

Orbicularis palpebrarum or sphincter of eyelids corrugator supercilii levator palpebrae levator palpebrae superioris tensor tarsi
See also 611 8461

6

Buccal muscles

Buccinator orbicularis oris levator anguli oris levatores labii superioris levator labii superioris alaeque nasi zygomatic levator labii inferioris levator menti depressor labii inferioris or quadratus menti depressor angulae oris or triangularis menti risorius or Santorini's muscle

7

Muscles aiding mastication and deglutition

71

Masseter

72

Temporal

73

Pterygoid

75

Muscles of palate and pharynx

76

Palate

Levator palati tensor palati zygus uvulae palatoglossus palatopharyngeus salpingopharyngeus

78

Pharynx

Inferior superior and middle constrictors stylopharyngeus

.733

Muscles of neck

1

Sternocleidomastoid

2

hyoid

3

Omohyoid

4

Sternothyroid

5

Thyrohyoid

6

Longus colli

7

Rectus capitis anticus major or longus capitis

8

Rectus capitis anticus minor or rectus capitis anterior

For rectus capitis lateralis see 611 7319

9

Scalear anticus medius and posticus

.734

Hyoid muscles

Depressors of lower jaw or elevators of hyoid For tongue see 611 7313

1

Digastric

4

Stylohyoid

6

Mylohyoid

8

Geniohyoid

611.735

Thoracic muscles

- 1 Pectoralis major
- 2 " minor
- 3 Subclavius
- 4 Levatores costarum
- 5 Serratus magnus or serratus anterior
- 6 Intercostal
- 7 Subcostal
- 8 Transversus thoracis or triangularis sterni

.736

Abdominal and coccygeal muscles

- 1 Rectus abdominis
- 2 Pyramidalis abdominis
- 3 Oblique abdominal
- 6 Cremaster
- 7 Transversalis or transversus abdominis
- 8 Quadratus lumborum
- 9 Coccygeal

.737

Muscles of upper extremity

Shoulder or axillary

- 1 Deltoid
- 11 Supraspinatus
- 12 Infraspinatus
- 14 Teres minor
- 15 Teres major
- 16 Subscapular

Arm

- 2 Biceps brachii or biceps flexor cubiti
- 21 Coracobrachialis
- 22 Brachialis (anticus)
- 24 Triceps brachii or triceps extensor cubiti
- 25 Anconeus

Forearm

- 3 Pronator muscles
- 41 Pronator radii teres
- 45 " quadratus
- 5 Flexors of forearm
- 51 Flexor carpi radialis
- 52 Palmaris longus
- 53 Flexor carpi ulnaris
- 54 " digitorum sublimis
- 55 " " profundus
- 56 " pollicis longus
- 6 Extensors and supinators
- 61 Brachioradialis
- 62 Extensor carpi radialis longus
- 63 " " " brevis
- 64 " " ulnaris
- 65 Extensors of fingers, or extensores digitorum
- 66 Supinator
- 67 Abductor pollicis longus
- 68 Short and long extensors of thumb, or extensores pollicis brevis et longus
- 69 Extensor of index finger, or extensor indicis proprius

Muscles of hand

- 71 Lumbricales
- 72 Palmaris brevis
- 73 Short abductor of thumb, or opponens pollicis
- 74 Short flexor of thumb or flexor brevis pollicis Adductor pollicis
- 76 Muscles of little finger
- 77 Abductor digiti quinti (or minimi) brevis opponens digiti quinti
- 78 short flexor of 5th or little finger, or flexor brevis digiti minimi
- 79 Interosseous muscles

DECIMAL CLASSIFICATION

611.738

Muscles of lower extremity

- 1 Hip and nates
- 11 Iliopsoas
- 12 Iliacus
- 13 Psoas major and minor
- 14 Gluteal
- 15 Tensor fasciae latae tensor fasciae femoris or tensor vaginae femoris
- 16 Piriformis
- 17 Obturator internus
- 18 Gemelli or gemini
- 19 Quadratus femoris
- 2 Thigh muscles
- 21 Sartorius
- 22 Quadriceps femoris or quadriceps extensor femoris
Rectus femoris vastus externus vastus internus and crureus or vastus intermedius
- 23 Articularis genu, or subcrureus
- 24 Pectineus
- 25 Adductors longus brevis, magnus and minimus
- 26 Gracilis
- 27 Obturator externus
- 28 Biceps femoris or biceps flexor cruris
- 29 Semitendinosus
- 30 Semimembranosus

3 Leg

- 4 Anterior muscles
- 41 Anterior tibial or tibialis anticus
- 42 Extensor digitorum longus
- 43 " hallucis " or proprius
- 44 Peroneus tertius
- 5 Other muscles of leg
- 51 Peroneus longus
- 52 " brevis
- 53 Gastrocnemius
- 54 Soleus triceps surae
- 55 Plantaris
- 56 Popliteus
- 57 Posterior tibial
- 58 Flexor digitorum longus
- 59 " hallucis "

7 Muscles of foot

- 8 Back of foot
- Extensor brevis digitorum
- Sole of foot or plantar region
- Adductor hallucis (obliquus and transversus), adductor digiti minimi, abductor hallucis, flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis lumbricales interosseous muscles

739 Electric organs Better clast in comparative anatomy

.74 Tendons Fasciae

May be divided like 611.73, e. g. Achilles tendon 611.74854

.75 Bursae Sheaths of tendons

.751 Hed

.752 Neck

.753 Back

.754 Shoulder

.757 Upper extremity

.758 Lower "

.76 Connectiv tissue See also 611.0182 Histology of connectiv tissue

611.77

Skin Glands of skin

771

Cuticle scarf skin or epidermis
Horny and Malpighian layers

772

Glands of skin

773

Sebaceous

774

Sudoriferous or sweat

775

Ciliary glands

776

Circumanal "

777

Ceruminous "

778

Corium cutis vera true skin or dermis

Reticular and papillary layers

5

Pigmentation

779

Subcutaneous areolar tissue tela subcutanea or panniculus adiposus

78

Hair, nails, scales, fethers, etc

For teeth see 611.314 Fur scales fethers horns etc better class in comparative anatomy 501.47

781

Hair

783

Scales

786

Nails

787

Fethers

788

Horns

.8

Nervous system Sense organs

81

Encephalon Brain

Measurement Weight

.811

General structure of brain and cerebrospinal axis

.812

Localizations

.813

Telencephalon, or endbrain Prosencephalon, or fore-brain Hemispheres

Longitudinal and transverse fissure

1

Pallium brain mantle or cerebral cortex

11

Frontal lobe

Broca's convolutions

12

Parietal lobe Central fissure, sulcus centralis, or Rolando's groove

Opercula insulae

13

Temporal or temporo-sphenoid lobe Fissure of Sylvius, or fissura cerebri lateralis

14

Limbic lobe Gyrus fornicatus

Hippocampal gyre or gyrus hippocampi Callosal gyre

Dentate gyre or fascia dentata hippocampi Fasciola Fimbria taenia fornicis or taenia hippocampi Hippocampus

major or cornu ammonis Dentate fissure hippocampal

sulcus or subiculum cornu ammonis Callosomarginal fissure

Amygdala almond nucleus or amygdaloid tubercle

15

Occipital lobe

Occipital or parieto-occipital fissure

16

Paracentral gyre or lobule

17

Cuneus Calcarin fissure

18

Precuneus, or quadrate lobe

19

Insula, island of Reil, central lobe, or gyri operi

2

Striatum, striate body, or corpus striatum

Basal ganglion of hemisphere

21

Caudatum, tail nucleus, or nucleus caudatus

22

Lenticula, lenticular nucleus, or nucleus lentiformis

Globus pallidus or pallidum and putamen

23

Clastrum

25

Tenia, taenia semicircularis, stria terminalis or cornu

- 611 8133 Rhinencephalon or rhinencefal
Olfactory bulb tract substantia perforata anterior prencibrium etc.
Broca's area or parolfactoria
- 7 Centrum ovale majus (of Vieussens) Centrum semiovale Internal capsule
- 8 Paraceles or lateral ventricles
- 9 Callosum or corpus callosum Fornix
Septum pellucidum or lucidum or septum Cavum septi pelluci 1
5th ventricle or pseudocele
- .814 Diencephalon, diencefal, thalamencephalon or interbrain
- 1 Hypothalamus or subthalamie tegmental region
Nucleus of Luys or nucleus hypothalamicus
Postcommissure or posterior commissure
- 2 Corpora albicantia, albicans, or corpus mammillare
Bundle of Vicq d Azyr or fasciculus thalamomammillaris
- 3 Hypophysis
Hypophysis cerebri pituitary body or somatic brain
Tuber or tuber cinereum Infundibulum
- 4 Optic tract Optic chiasm or commissure
- 5 Epithalamus Pinea, pineal body, conarium or epiphysis
Habenula habena, or pedunculus conarii
- 6 Geniculate bodies, or geniculum Metathalamus
- 7 Thalamus or optic thalamus
Thalamic radiat on ansa peduncularis ansa lenticularis
For N syl's bodies see 611 01882
- 8 Third ventricle, or diacele
Porta or foramen of Monro or foramen interventriculare
- .815 Mesencephalon, midbrain or mesencefal
- 3 Quadrigeminum
Corpora or tubercula quadr gemina Quadrigeminal arms
- 4 Pedunculi or crura cerebri, crura or crus
Substantia nigra (Sömmering) or intercalatum
See also nucleus of Luys 611 8141
- 42 Foot of peduncle bas s or pes pedunculi or crusta
- 43 Tegmentum
- 44 Red nucleus nucleus ruber or rubrum
- 5 Nuclei of oculomoto and trochlear nervs
- 6 Aqueduct of Sylvius, aqueductus cerebri, or mesocoele
- .816 Isthmus rhombencephali
- 3 Valv of Vieussens, or superior medullary velum
- 4 Superior cerebellar peduncles
Prepeduncles brachium conjunctivum cerebelli or crura ad cerebrum
- 7 Lemniscus mesial and lateral fillets

- 611.817 Metencephalon or epencephalon, epencefal or hindbrain
Pons (Varoli)
- 1 Cerebellum
11 Lobes fissures valv of Tarinus velum medullare posterius or kalos
13 Cerebellar centers of gray matter Nuclei olivarii superiores roof
nuclei dentate nuclei dentatum via
15 White substance of cerebellum Arbor vitae
- 3 Pons Varoli Tegument For reticula see 611.8236
- 4 Nuclei of trigeminus system
41 Nucleus motorius or motor nucleus of 5th nerv
43 Nucleus of spinal tract or sensory nucleus of 5th nerv
- 5 Nucleus or nidus of abducent nerv
6 " " " " facial nerv
63 Salivary nucleus
- 7 Cochlear nidus or nucleus of cochlear nerv
Ventral root of 8th nerv
76 Trapezium or trapezoid body
77 Nucleus of superior olivary body
78 Acoustic striae striae acusticae or medullares
- 8 Vestibular nidus or nucleus of vestibular nerv
Dorsal root of 8th nerv
- .818 Myelencephalon, medulla, bulb or afterbrain,
postoblongata or medulla oblongata
- 1 Pyramids Pyramidal decussation
2 Dorsal column, posterior fibers or funiculi dorsales
Arcuate fibers Restis or restiform body
Fasciculus of Rolando cuneatus and gracilis
- 3 Lateral fibers Oliva or olivary bodies
Anterolateral ground bundle or fasciculus proprius anterolateralis
anterolateral cerebellar tract or fasciculus anterolateralis super-
ficialis
- 4 Interolivary stratum, fillet or lemniscus
- 5 Fourth ventricle or metepiciele
Metapore or foramen of Magendie Foramina of Luschka Key
and Retzius Obex Lingula Calamus scriptorius
- 6 Nucleus of glossopharyngeal system Solitary tract
7 Nuclei of vagus and accessory nervs
75 Ambiguous nucleus
76 Dorsal nucleus of vagus
- 9 Nucleus of hypoglossal system or hypoglossal nidus
- .819 Meninges and cerebral meninges
- 1 Pia mater or pia
2 Telae choroideae, velum interpositum, choroid plexus
3 Arachnoid villi
Glandulae Pacchioni, Luschka's villi or granulations
- 4 Cisterns or subarachnoid cisterns
5 Dura mater, or dura Tentorium and falx cerebelli
Falx cerebri

- 611 82 Spinal cord, or myel
- .821 Enlargements or intumescencia; general structure
- 1 Cervical cord or myel pars cervicalis
 - 3 Thoracic or dorsal cord or myel pars thoracalis
 - 4 Lumbar cord or myel pars lumbaris
 - 5 Sacral cord
 - 6 Terminal cone or conus (medullaris) Filum Cauda (equina)
 - 8 Grooves and fissures sulci and fissurae
- .822 Gray substance or matter, entocinerea or cinerea Gray
cornua or colum
- 1 Anterior or ventral colum or cornu or funiculus anterior
 - 2 Posterior or dorsal " " "
 - 3 Clarke's colum nucleus dorsalis or Stilling's nuclei
 - 4 Gelatinosa or gelatinous matter substantia cinerea gelatinosa Substantia spongiosa
 - 6 Reticula or formatio reticularis
- .823
- .824 White substance, or alba
- .825 Anterolateral colum
- Anterior plus lateral columns
- 2 Pyramidal tract or bundle or fasciculus cerebrospinalis
 - Direct or uncrossed tract fasciculus cerebrospinalis anterior, or fasciculus
 - Crossed pyramidal tract or cerebrospinalis lateralis
 - 3 Direct cerebellar tract or dorsolateral cerebellar tract
 - 4 Gower's tract cerebellar path of anterior funiculus or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract
 - 5 Fasciculus sulcomarginalis or marginal tract of Spitzka and Lissauer
 - 6 Lateral colum or anterolateral descending cerebellar tract or colum of Marchi and Lowenthal
 - 7 Anterolateral ground bundle or fasciculus proprius anterolateralis
 - 8 Anterior or ventral commissure
- .826 Posterior or dorsal columns
- 1 Ascending fibers
 - Tracts of Burdach (posterolateral or cuneatus) and of Goll (posteromedian or gracilis) and fasciculus of Rolando
 - 3 Descending fibers
 - 8 Comma tract in Burdach's colum
 - 9 Radicular fibers
 - 9 Posterior or dorsal commissure
- .827 Roots of nervs
- Works tracing nerv roots into spinal cord for microscopic studies on nerv roots see 611 832
- 1 Anterior or ventral roots
 - 2 Posterior " dorsal "
- .828 Spinal canal Ependyma or endyma
- Rhomboidal sinus Reissner's fibers
- .829 Spinal membranes, or meninges spinales
- 1 Spinal pia mater
 - 3 " arachnoid
 - 5 " dura mater

- 611.83 **Periferal nervous system Nerve**
- .831 **Cranial nerves and ganglia**
- 1 Olfactory, or 1st cranial
- 2 Optic, or 2d cranial
- 3 Motoroculi, 3d cranial or oculomotor
- 4 Trochlear, pathetic or 4th cranial
- 5 Trifacial, trigeminus, or 5th cranial
- Large or great superficial petrosal branch
- 33 Ophthalmic nerve of Willis
- 34 Superior maxillary nerve or maxillary nerve
- 34.1 Infraorbital branch
- 36 Mandibular or inferior maxillary
- 6 Abducent external motoroculi, oculomotor, or 6th cranial
- 7 Facial, 7th cranial nerve, or portio dura
- 73 Other collateral branches
- 74 Terminal branches
- 75 Pars intermedia of Wrisberg (nervus intermedius) Chorda tympani
- 8 Auditory acoustic or 8th nerve
- 81 Cochlear nerve or path or central auditory path
- 85 Vestibular path or nerve
- 9 Glossopharyngeal or 9th nerve
- 91 Pneumogastric, vagus or 10th nerve
- 91.1 Pancreatic branches auricular and lateral nerves
- 91.4 Pharyngeal branches
- 91.5 Superior cardiac nerves
- 91.6 Superior laryngeal nerve
- 91.7 Inferior or recurrent laryngeal nerve
- 91.8 Pulmonary branches
- 91.9 Esophageal and gastric branches
- 92 Spinal accessory or 11th nerve
- 93 Hypoglossal or 12th nerve
- .832 **Spinal nerves**
- Including in 5-6 microscopic studies on nerve roots. See also 611.827
- 1 Dorsal or posterior branches
- 2 Ventral or anterior "
- 3 Dorsal or posterior roots See also 611.827.1
- 6 Ventral or anterior " See also 611.827.2
- .833 **Cervical nerves**
- 1 Dorsal or posterior branches of cervical nerves Small and large sub-occipital nerves
- 2 Ventral anterior branches of cervical nerves
- 3 Cervical plexus
- 33 Large auricular nerve
- 33 Cutaneous nerve of neck
- 34 Supraclavicular nerves
- 36 Prenc or internal respiratory nerve of Bell
- 4 Brachial plexus
- 41 Supraclavicular part
- 47 Infraclavicular part
- 5 Median nerve
- 6 Ulnar or cubital nerve
- 7 Radial nerve
- Musculo-spiral
- 8 Musculocutaneous nerve
- 9 Antibrachii ulnaris
- Cutaneous brachii medialis or nerve of Wrisberg
- .834 **Thoracic nerves**
- 1 Posterior branches
- 2 Anterior " Intercostal nerve

611 835

Lumbar and sacral nerves

- 1 Posterior branches
- 2 Anterior "
- 3 Lumbosacral plexuses
- 4 Lumbar plexus
- 41 Great 10 hypogastric nerve
- 42 Iliac
- 43 Genitofemoral or genitocrural
- 44 Lateral or cutaneous nerve of thigh
- 5 Femoral nerve or anterior crural nerve (femoralis)
- 51 Middle cutaneous nerve
- 52 Internal " "
- 53 Muscular branches of posterior division of anterior crural nerve
- 54 Long or internal saphenous nerve
- 6 Obturator nerve
- 61 Accessory obturator or accessory anterior crural nerve of Winslow
- 68 Lumbosacral cord
- 7 Sacral or sacral plexus
- 71 Superior gluteal
- 72 Inferior "
- 73 Small sacral nerve (cutaneous femoris posterior)
- 8 Great sacral nerve orischadus
- 81 External popliteal or peroneus communis or peroneal
- 82 Sural or lateral cutaneous branch or cutaneous surae [lateralis]
- 84 Musculocutaneous or superficial peroneal
- 85 Anterior tibial nerve or deep peroneal
- 87 Internal popliteal or tibial
- 88 Sural or plantar nerves
- 9 Genital pudic or pudendal plexus
- 93 Collateral branches
- 95 Pudic nerve

836

Coccygeal plexus Coccygeal nerves

839

Sympathetic system

- 1 Cervical and cephalic part
- 11 Superior cervical ganglion
- 12 Internal carotid nerve and plexus
- Cavernous plexus
- 13 External carotid nerve and plexus
- 14 Common " plexus Superior cardiac nerve
- 15 Middle " ganglion Middle " "
- 16 Inferior cervical " "
- 17 " cardiac nerve Cardiac plexus
- 2 Thoracic part of gangliated cord
- 3 Abdominal and pelvic part of sympathetic system
- 31 Solar or epigastric plexus or plexus coeliacus

84

Eye Organ of vision

See also 611 7146 Orbit including capsule of Ténon

841

Fibrous coats or tunics of eye

- 1 Conjunctiva
- 3 Cornea
- 5 Sclerotic coat or sclera
- Canal of Schlemm Spaces of Fontana

842

Vascular coats of eye Uveal tract

- 1 Iris Pupil
- 3 Choroid
- Tapetum
- 5 Ciliary body muscle and processes

.843

Retina

Optic disc macula lutea For optic nerve see 611 8328

- 611 844 **Refracting media**
 1 Crystallin lens
 2 Zonule of Zinn or zonula ciliaris
 7 Vitreous humor Posterior chamber
 Hyalo d membrane Hyalo d or Still ing s or Cloquet s canal
 Canal of Petit
 9 Aqueous humor Anterior chamber
- .846 **Accessory organs of eye**
 1 External muscles musculi oculi
 4 Tear apparatus
 7 Lacrimal gland
 8 " canals and puncta
 9 " sac and nasal duct
- 847 **Eyelids or palpebrae**
 Canthi
 Eyelashes or cilia
 Eyebrows or supercilia
- 85 **Ear Organ of hearing**
 See also 611 8318 Auditory nerv
- 851 **Internal ear**
- 852 **Membranous labyrinth**
 1 Cochlea scala med a or ductus cochlearis
 2 Organ of Corti or Cort s fibers
 4 Sacculle
 5 Utricle
 6 Semicircular canals
- 853 **Osseous labyrinth**
 Vestibule semicircular canals cochlea modiolus or columella
- 854 **Middle ear or tympanum**
 Atrium or tympanic cavity proper
 Attic
 Mastoid cells
- 855 **Membrana tympani or drumhead**
- 856 **Eustachian tube or tuba auditiva**
- 857 **Bones of ear**
 Malleus or hammer incus or anvil stapes or stirrup muscles of
 tympanum stapedius and tensor tympani
- 858 **External ear**
 Meatus externus
- 86 **Organs of smell olfactory organs**
- 87 **" taste**
- 88 **" touch and senses in general**
- 89 **Organs lateral a**
- 89 **Ganglions**
 Class ganglions here if separately treated
- 891 **Cranial ganglions**
 1 Semilunar ganglion or Gasserian
 52 Olfactory
 54 Sphenopalatine or Meckel s ganglion
 56 Otic or Arnold s submaxillary ganglion
 7 Geniculate ganglion
 81 Spiral or Cort s ganglion
 85 Vestibular ganglion
 9 Petrosal and superior glossopharyngeal ganglion
 91 Jugular and nodose ganglions
- 891 **Ganglions of spinal nerve**
 See also 611 831 Spinal nerve
- 899 **Sympathetic ganglions**
 For chromaffin tissue see 611 4

- 611.9 Regional anatomy
- .91 Hed
 - .92 Face
 - .93 Neck
 - .94 Thorax
 - .942 Front or pectoral
 - .946 Back or dorsal
 - .95 Abdomen
 - .951 Epigastric region
 - .955 Mesogastric "
 - .957 Hypogastric "
 - .959 Lumbar "
 - .96 Pelvic and perineal region
 - .962 True pelvis
 - .964 False "
 - 1 Inlet 2 Cavity 3 Outlet
 - .966 Position and size
 - .968 Difference between male and female pelvis
 - .97 Upper extremities
 - .971 Shoulder or axilla
 - .972 Arm
 - .973 Elbow
 - .974 Forearm
 - .975 Wrist
 - .976 Hand
 - .977 Fingers
 - .98 Lower extremities
 - .981 Hip Nates Sulcus inguinalis
 - 1 Hip
 - 2 Nates
 - 3 Sulcus inguinalis
 - 4 Inguinal canal
 - 5 Crural or femoral canal
 - .982 Thigh
 - .983 Knee Popliteal space
 - .984 Leg
 - .985 Ankle
 - .986 Foot
 - .987 Toes
 - .99 Tail

612 Physiology

SUMMARY

- 612.013 Vitalism
- 014 Cells and organisms
- 015 Physiologic chemistry
- 1 Blood and circulatory system
- 2 Respiration
- 3 Digestion
- 4 Glandular system
- 5 Animal heat
- 6 Reproduction Development
- 7 Motor and vocal apparatus
- 8 Nervous system

General theory of physiology

- .01 Notion definition nature
- .011 Classification division
- .012 Terminology notation symbols
- .013 Methods

Physiologic theories and generalities

.013 On the nature of life and death Vitalism

This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the books under this number are better class in the broader relations i. e. see 577.2 for the nature of life 577.7 for the nature of death 612.67 for death as a stage in vital history

- 1 Signs of real death See 577.7
- 2 Experiments on executed persons
- 4 Theories of life and the soul Vitalism
See metaphysics 128
- 5 Comparisons of animals and plants See 577.5
- 6 Organism and inanimate matter See 577.1
- 7 Vital energy See 577.6
- 8 Experiments on surviving organs See 577.6

.014 General physiology of cells and organisms

See 576 and note under 612.013

- 1 Chemistry of cells
- 11 Aerobic and anaerobic cells
- 2 Physiologic morphology of cells
- 21 Functions of protoplasm
- 22 " " nucleus
- 24 " " chromosome bodies Chromatolysis
- 26 " " centrosome
- 3 Physiologic characteristics of cells
- 31 Irritability in general
- 32 Fatigue
- 4 Influence of environment on cells and organisms
- Mesology
- 41 Effects of barometric pressure
See also 612.27 Influence of barometric pressure on living beings
- 42 Action of electricity Electrophysiology
- 421 Electrophysiologic technique
See also 615.84 Electrotherapy
- 2 Static electricity
- 4 Dynamic electricity
- 5 Alternating currents
- 7 Electric measurements
- 8 Special instruments
- 1 Electrodes 2 Telephone microphone 6 Galvanometers
- 422 Electric resistance Conductibility

- 612.014 423 Electric phenomena of organisms
 For electric phenomena of muscles see 612.743 of nerves and muscles
 see 612.813
- 1 Theory of electric phenomena
- 2 Negative variation
- 3 Electrotonus
- 4 Electric phenomena of tissues in repose and in action
- 424 Action of electricity on organisms
 Everything concerning effect of electricity on function may be classed here by adding 0 and dividing like 612 e.g. action of electricity on red corpuscles 612.0144240111 As 111 is the subdivision of 612 meaning red corpuscles Action of electricity on bile 612.0144240357 as 357 means bile
- 2 Act on of static electricity
- 3 " " atmospheric "
- 4 " " dynamic "
- 5 " " alternating currents
- 425 Death by electric shock by lightning
- 426 Magnetic action
- 427 Galvanotropism
- 428 Electrotherapy from physiologic point of view
- 43 Action of heat and cold See also 612.59
- 44 Action of light See also 612.843
- 445 Phosphorescence
- 447 Heliotropism Phototropism
 See also 615.831 Phototherapy
- 45 Action of sound and its vibrations
 See also 612.85876
- 46 Poisons and chemic substances
 Poisons and definite chemic substances are preferably classed in 615.7 general toxicology in 615.9 This number is for topics of special physiologic interest
- 461 Effects of water
- 1 Reviscent animals
- 2 Hydrations
- 3 Quantity of water in organisms and tissues
- 462 Physicochemic forces
- 1 Osmosis
- 2 Molecular concentration in organic fluids Cryoscopy
 Subdivisible with 0 like 612 e.g. Cryoscopy of gastric juice 612.0144622032
- 3 Relation between secretion and osmotic pressure
- 4 Relation between osmosis and electric action ions
- 5 Colloid substances coagulation agglutination etc
 See also 612.398133 Theory of histologic conservation
- 6 Reaction acid or alkaline
- 7 Viscosity
- 8 Superficial tension
- 9 Other physicochemic forces
- 463 Action of mineral salts on organisms
- 464 " " air normal and abnormal of oxygen and ozone
- 465 " " anesthetics
- 466 " " antiseptics
- 467 Chemotaxis Chemotropism
- 469 Action of other chemic forces
- 47 Action of mechanical forces
- 477 Geotropism
- 4.8 Thigmotaxis
- 48 Other physical forces
- 481 Various rays
- 1 Physiologic effect of X rays
 To express effect of X rays on a specific organ or tissue add 0 and subdivide like 612 e.g. effect of X rays on sight 612.0144811084
- 4 Effect on lower organisms
- 482 Effect of radioactive substances Becquerel rays
- 483 Production and action of N rays

- 612.015 Physiologic chemistry in general
- 1 Ferments
- 11 Oxydants Reducing ferments
- 12 Hydrolytic
- 13 Proteolytic
- 14 Lipolytic
- 15 Amylolytic and sacroclastic
- 16 Glycolytic
- 161 Alcoholic
- 2 Normal composition of the body and its products
 See also 612 3926 612 396 398
- 21 Extracts of organs
- 3 Metabolism
- 31 Of mineral substances
 See also 612 3926
- 32 Of carbon
 See also 612 32
- 33 Of nitrogen
 See also 612 46123
- 34 Of substances foreign to the normal organism
 Elimination of poisons
 Most material will be classed under 615 7 and its subdivisions
 See also special organs
- 346 Metabolism of nonnitrogenous substances
- 347 " crystallizable nitrogenous substances
- 348 " albuminoids
- 349 after death Autolysis
 Subdivisible with e like 612 e g autolysis of the liver
 612 015349035
- 35 Influence of temperature on metabolism
 See also 612 39
- 36 Reductions, hydrations and syntheses in organisms
- 37 Influence of other agents on metabolism
- 38 Influence of nervous system on metabolism
- 39 Metabolism in disease
- 4 Staining substances and pigments
- 016 Means of attack and defense
 Comparative physiology usually better classed in 591 57
- 1 Autotomy
- 2 Mimicry
- 3 Physiology of parasites
- 019 Comparative physiology
 May be subdivided like 590 to signify kind of animal e g Reptils
 being 598 1 comparison of reptil and human physiology is 612 01981
 Class here only books written distinctly from physiologists point
 of view Other works on comparative zoology are better in 591 1
 Form divisions
- 02 Compendis
- 03 Dictionaries Cyclopedias
- 04 Essays Addresses
- 05 Periodicals
- 06 Societies Clubs
- 07 Study and teaching
- 072 Vivisection
 See also ethics 179 4 and laws, 614 21
- .08 Polygraphy
- .09 History

- 612.1 Blood and circulatory system**
- .109 History of circulation of blood**
 - .11 General properties of blood**
 - .111 Red corpuscles**
 - 1 Chemic composition**
 - 11 Hemoglobin and oxyhemoglobin**
 - 14 Carboxyhemoglobin**
 - Action of CO on blood carbon monoxid hemoglobin
 - 13 Spectroscopy of blood**
 - 16 Methemoglobin and derivatives**
 - Hematin or hematerylin hematoidin globin hemin or Teichmann's crystals hematochromogen hematoporphyrin
 - 17 Isotony of corpuscles Osmotic permeability**
 - 19 Chemic substances in corpuscles**
 - Lecithin urea cholesterol etc
 - 2 Number of corpuscles**
 - Technic of counting
 - 22 Volume of corpuscles**
 - 3 Formation of corpuscles**
 - See also 612.119 Sanguification
 - 4 Action of poisons on corpuscles**
 - See also 612.11114 Action of CO on blood
 - 44 Agglutinating substances**
 - 45 Hemolytic substances**
 - 6 Corpuscles in disease**
 - 7 Other red corpuscles than erythrocytes**
 - 8 Coloring matters of invertebrate blood**
 - e g hemocyanin
 - 9 Other similar coloring matters**
 - e g chlorophyll and derivative picroerythrin
 - .112 Leucocytes and ameboid cells**
 - 1 Chemistry of leucocytes**
 - 11 Ferments of leucocytes**
 - Influence of leucocytes (lymphocytes) on digestion
 - 2 Movements and irritability of leucocytes**
 - 3 Phagocytosis**
 - 4 Diapedesis**
 - 5 Effect on coagulation of blood**
 - 6 In disease and intoxications Leucocytosis**
 - For digestive leucocytosis see 612.11211
 - 7 Counting and its technic**
 - 8 Numeric relations of white and red corpuscles**
 - 9 Varieties Physiologic morphology**
 - .113 Arterial blood**
 - .114 Venous "**
 - .115 Coagulation of blood**
 - 1 Fibrin Fibrinoplastin**
 - 11 Composition and chemic properties**
 - 12 Fibrinogen and fibrinoplastic ferments Fibrinogen Thrombin**
 - 13 Estimating quantity of fibrin**
 - 3 Substances modifying coagulation**
 - 31 Retarding agents**
 - 32 Accelerating agents**

612 116

2

Total quantity of blood

Hemorrhage

Anemia

Subd visible with o l ke 612 e g physiologic influence of anemia on kidneys 612 116 2045 For pathologic effect see 616 243

618 14 Hemostasia

Transfusion

Effect on system rece v ng transfused blood

.118

Physical and biologic properties of blood

Physical

Osmotic pressure

See also 612 11117 Osmotic permeability

Effect of various nject ons

Viscosity

Cryoscopy of blood

Method of studying isotony and s m lar phenomena by relative freezing po nts of solut ons

Biologic properties

Toxins and ant toxins

Physiologic effect

For chemic act on see 612 3988 May be used for those not produced by the blood e g cytotox nt

Theory of toxic and ant toxic act on

Toxic and antitoxic act on of blood

Limited to blood toxins and ant toxins

See also 612 3988

Specific react on of blood and albumino ds

Blood in legal med c n

Natural immunity

Effect of blood on bacteria

Class he e physiologic aspect of opson c theory opsonins and opson c index See also 612 537 See otherapy

Various toxic and ant toxic substances of blood

Varieties of blood n d flerent parts of body

Hematopoiesis or sanguification

See also 612 1113 Formation of red corpuscles

Chemical properties of blood

Reaction and density

Color react on Spec fic grav ty

Carbohydrates in blood

1 Glucose

2 Glycogen

3 Glycolytic ferments

Fats, lipoids, cholesterol, saponin, glycerin

Albumins and albuminoids

Uncrystallizable nitrogen

See also 612 39812 Blood serum

Crystallizable nitrogen compounds

Sta n ng substances of serum

Mineral salts

Blood gases

1 Techn c for determining quant ty

2 Oxygen

3 Carbonic acid

Ferments

Other chemic substances

Abnormal substances

24

7

119

12

.121

122

123

124

125

126

127

128

129

- 612 23 Gaseous exchange in the blood
 231 Expired air Respiratory quotient
 232 Asphyxiation
 In legal medicine
 1 Artificial respiration in asphyxiation
 2 Asphyxiation by submersion
 3 Hart in asphyxiation
 4 Toxic action of carbonic acid (CO_2)
 233 Respiration in confined air
 234 Toxic action of carbonous oxid (CO)
 See also 612 11114 and 615 96
 235 Exchange of gases between air and blood
 1 Theory
 24 Lung capacity Vital capacity
 Residual reserve respiratory or tidal and complementary
 25 Exhalation of water from lungs
 26 Internal or tissue respiration
 261 Exchange of gases between tissues and blood
 262 Accumulation of oxygen in tissues (cells)
 27 Influence of barometric pressure on living beings
 See also 612 01441 For effect on absorption of oxygen and exhalation
 of carbonic acid see 612 2232
 273 Toxic effects of oxygen and ozone
 274 Effect of more than normal pressure
 Physiologic aspect of caisson disease
 275 Effect of less than normal pressure
 1 Physiologic and therapeutic effects of high altitudes
 11 Mountain and aeronautic sickness
 276 Effect of pressure on fermentations
 Effect of removing pressure
 279 Maximum pressures
 Effect on aquatic animals
 28 Respiratory centers
 Influence of nervous system on respiration
 281 Action of cerebrum and of will
 282 " medulla oblongata and vagus nucleus
 283 " " spinal cord
 284 " " chemic substances and abnormal blood gases
 1 Toxicology of center
 2 Apnea acapnea dyspnea
 See also 612 232
 287 Action of pneumogastric or vagus nerve
 See also 612 819912
 288 Respiratory reflexes
 See also 612 8332
 29 Influence of other organs on respiration

612.3 Digestion

May be subdivided by 01-09 for form if needed

- .31 Mouth Teeth Salivary glands**
- .311 Mastication and prehension**
 - 1 Physiology of teeth**
- .312 Deglutition or swallowing**
 - 2 Tonsils 3 Tongue**
- .313 Salivary glands Saliva**
 - 1 Composition of normal saliva**
 - 2 Action of saliva on food Ptyalin**
 - 3 Salivary secretion**
 - 31 Toxic effect of saliva**
 - 4 Action of chemic substances**
 - See also Therapeutics 615 741 Sialagoges
 - 41 Elimination**
 - 42 Action of atropin and of pilocarpin**
 - 5 Physiologic morphology**
 - 6 Pathologic changes of saliva**
 - 61 Salivary fistulas**
 - 63 Bacteriology**
 - 64 Salivary calculi**
 - 69 Abnormal substances**
 - 8 Action of nervous system on salivary secretion**
 - 82 Action of sympathetic nerves**
 - See also 612 898
 - 87 " Action on of chorda tympani**
 - See also 612 81977
- .314 Salivary venoms and venoms in general**
 - 1 Chemic composition**
 - 2 Toxic action**
 - 3 Natural immunity and resistance to venoms**
 - 4 Attenuation and neutralization of venoms**
 - 5 Treatment of venom poisoning Serotherapy**
 - See 615 94 Duplicated here for physiologist only
 - 51 Antitoxins**
 - See also 612 11822 Antitoxins of serum
- .315 Esophagus**
- 32 Stomach Gastric juice Vomiting**
- .321 Normal composition of gastric juice**
 - 1 Gastric fistulas, experimental and pathologic**
 - 2 Determination of acid in gastric juice**
 - 5 Proteolytic ferments pepsin**
 - 6 Milk curdling ferments, inorganic and organic**
- .322 Digestive power of gastric juice**
 - 1 Starch and analogs**
 - 2 Sugars " "**
 - 3 Fats " "**
 - 4 Albuminoids**
 - 45 Nature and properties of peptones**
 - See also 612 39817
 - 5 Antiputrefactive properties of gastric juice**
 - 6 Mixture of bile or other secretions of digestive tract and gastric juice**

- 612.3227 Absorption in stomach and transformation (into mucus) of products of digestion
 See also 612 386
- | | | |
|----|---|-------------------------------------|
| 72 | Absorption and transformation of sugars | |
| 73 | " " " | " fats |
| 74 | " " " | " nitrogenous substances (peptones) |
| 75 | " " " | " salts Effect on stomach |
- 323 Stomach secretion
- | | |
|----|--------------------------------------|
| 2 | Formation and destruction of pepsin |
| 31 | Pepsin in urine |
| 3 | Formation of hydrochloric acid (HCl) |
| 4 | Autodigestion of stomach |
| 5 | Effects of removing stomach |
- 324 Action of chemic substances (poisons) on gastric secretion and their elimination
- 325 Physiologic morphology of stomach
 Relation between morphologic changes and stimulation
- 326 Pathologic changes of stomach secretion
- | | |
|---|--------------------------------------|
| 3 | Bacteriology |
| 5 | Gastric juice in disease |
| 9 | Abnormal substances in gastric juice |
- 327 Movements of stomach
- | | | |
|---|----------------------------------|---------------------|
| 1 | Muscular irritability of stomach | |
| 2 | Motor action of pneumogastric | See also 612 819913 |
| 3 | Evacuation of stomach | |
| 5 | Merycism and rumination | |
| 7 | Vomiting | |
| 8 | Action of emetics or vomitories | |
- See also under therapeutics 615 731 Emetics
- 328 Action of nervous system on stomach
- | | |
|---|---|
| 1 | Psychic influence on stomach secretions |
| 8 | Sensibility of stomach |
- 33 Intestin
- Middle intestine and glands of middle intestine in invertebrates
- 331 Normal composition of intestinal juice
- | | | |
|---|--|------------------------------------|
| 1 | Intestinal fistulas, experimental and pathologic | |
| 7 | Intestinal gases | Fermentive process due to bacteria |
- 332 Intestinal digestion
- | | | |
|---|---|---------|
| 2 | Carbohydrates | |
| 3 | Fats | |
| 4 | Albuminoids and derivatives | Erepsin |
| 7 | Absorption and changes of food in intestine | |
- See also 612 386
- | | | |
|-----|------------------------|--------------------------------------|
| 72 | Carbohydrates | |
| 73 | Fats | Chyliferous vessels See also 612 426 |
| 74 | Albuminoid derivatives | |
| 75 | Other substances | |
| 751 | Inorganic substances | Water and salts |
- 8 Action of intestinal juice on other secretions and ferments
- See also 612 3226
- 84 Enterokinase and secretion

- 612 333 Intestinal secretion
 334 Action of chemic substances on the intestine and their elimination
 4 Purgatives
 See also therapeutics 615 7323 Cathartics
 335 Physiologic morphology of intestine
 5 Intestinal circulation
 336 Pathologic changes of intestinal secretion
 3 Parasites and microbes
 31 Bacterial fermentation Physiologic effect of microbes
 337 Movements of intestine
 1 Movement of chyme in intestine
 338 Action of nervous system on intestine
 1 Action of nerves and nerve centers on secretion
 339 Peritoneum Omentum
 1 Absorption in peritoneum
 See also 612 387
 34 Pancreas Pancreatic juice
 341 Normal composition of pancreatic juice
 1 Pancreatic fistulas
 342 Action of pancreatic juice on food Tryptic digestion
 1 Starches and analogs
 2 Sugars
 3 Fats Steapsin or ptyalin
 4 Albuminoids Trypsinogen Trypsin
 5 Effect on other digestive phenomena
 51 On bile and gastric juice
 See also 612 3226
 343 Pancreatic secretion
 344 Action of special substances on pancreatic secretion and juice
 345 Physiologic morphology
 Relation between morphologic changes and stimulation
 346 Pathologic changes of pancreatic juice
 348 Action of nervous system on pancreas
 349 Pancreas as an internal gland Islands of Langerhans
 1 Pancreatic glycosuria
 Physiologic phenomena on See also 6 235216 11 46621 and diseases 6 663 where most material belongs
 35 Liver
 351 Hepatic circulation and chemic composition
 1 Chemic composition
 1 Ferments
 5 Hepatic circulation
 51 Ligature of portal vein
 6 Effect of extracts from hepatic tissue
 62 Hepatopoiesis

- 612.352 **Effect of liver on absorbd foods**
- 1 **Glycogenesis Glycogen of liver and its tissues**
 See also 612 396112 Chemistry of glycogen
 12 Determination of amount of sugar and glycogen technic
 13 Sugar of the blood See also 612 122
 13 Action of nerves on glycogenic function Experimental diabetes
 14 Fermentation of glycogen Glycogenolysis
 16 Glycosuria (diabetes) in general
 See also 612 3491 612 46621 and pathology 616 63
 17 Glycogen of other organs
 18 Glycogen of muscles See also 612 74421
 19 Relations between glycogenesis and alimentation
- 2 **Fat Adipogenic function**
- .353 **Hepatic chemic phenomena**
- 1 **Formation of urea See also 612 4612**
- .354 **Action of poisons on liver**
- 1 **Toxic steatoses**
- 2 **Antitoxic action of liver**
- .355 **Temperature of liver See also 612 563**
- .356 **Hematopoietic function of liver and effect on blood**
 See also 612 119
- .357 **Bile**
- 1 **Normal composition of bile**
- 11 Biliary fistulas
- 13 Coloring matter Bile pigments
 Bilirubin biliverdin For origin see 33 below
- 14 Mineral salts
- 15 Biliary acids and their salts
 Glycocholic and taurocholic acids
- 2 **Action of bile in the intestin**
 Final fate of bile
- 3 **Bile secretion**
- 31 Quantity
- 32 Origin of bile acids
- 33 " " " pigments
- 4 **Action of chemic substances on bile secretion**
 See also therapeutics 615 742 Cholagoges
- 5 **Elimination of poisons by bile**
- 6 **Pathologic physiology of bile**
 For general works and medical aspect see 616 36
- 64 Biliary calculi
- 65 Obliteration of bile ducts Icterus Jaundis Cholema
 See also pathology 616 36 Liver and bile ducts
- 66 Bile in disease
- 67 Toxic effects of bile
- 69 Abnormal biliary substances
- 7 **Biliary excretion Physiology of ducts**
- 71 Gall bladder
- 72 Absorpt on in biliary ducts
- 73 Contractility of ducts
- 8 **Innervation of bile ducts**
- .358 **Action of nervous system on liver**
- .359 **Ablation, regeneration, cicatrization and other mor-
 fologic phenomena**
- 1 **Volume of liver**
- 2 **Fatty or starchy degeneration**

- 612 36 Defecation Large intestine
 Proctodeum and its appendages in invertebrates
 .361 Chemic composition of excrements
 .363 Cecal digestion Vermiform appendix
 .364 Absorption in large intestine
 .365 Defecation
 .366 Rectum
 .367 Movements of large intestine
 368 Innervation " " "
 38 Absorption
 .381 Imbibition Transudations and exudations Edema
 .382 Osmosis See also 612 6744621
 1 Dialysis of mineral salts
 2 " " sugars
 4 " " albuminoids
 .383 Diffusion
 .384 Absorption by skin
 See also 612 79
 .385 Absorption by lungs
 See also 612 2739
 386 Absorption in digestive tract
 General see also specific part of tract
 .387 Absorption by mucous and serous membranes
 See also 612 3391
 .388 Parenchymatous absorption
 Absorption by cellular tissue (after injection)
 39 Nutrition Metabolism
 .391 Hunger Thirst Inanition
 3 Hunger, thirst and nervous centers Mechanical
 action of hunger
 4 Inanition in man
 5 " " disease
 9 " " animals
 92 Inanition in poikilothermic animals
 96 " " homiothermic "
 .392 Foods
 1 Assimilation of carbon
 2 " " nitrogen
 See also 612 46123
 3 Assimilation of water
 4 " of sulfur, phosphorus and iron
 3 Sulfur 4 Phosphorus 5 Iron
 5 Thermodynamic value of food
 6 Mineral foods
 1 Sodium salts 2 Potassium salts 3 Calcium salts
 7 Vegetable foods
 71 Vegetarianism See also hygienic 613 26 Vegetable diet
 While the strictest vegetarians confine themselves to a purely vegetable
 diet the majority use some forms of animal food e.g. milk butter and
 eggs
 72 Fruits and fresh vegetables
 73 Cereals
 74 Bread

612 3928

Animal food

See also hygiene 613 28 Meats in diet

81

Meats

82

Soup Meat extracts

83

Eggs

84

Milk

See also 612 664

841

Sterilization and artificial changes in milk

85

Cheese

86

Butter

9

Special artificial foods

393

Condiments and stimulants

1

Alcohol as food Fermented drinks

See also hygiene of nervous system 613 81 Alcohol

2

Coffee Tea

See also hygiene of beverages 613 37

9

Condiments

394

Ration or food requirement during growth

2

Of man Nourishment of newborn

3

" animals

395

Ration or food requirement of adults

1

Working ration Normal ration

12

Working ration for man

13

" " animals

2

Subsistence ration

22

Subsistence ration for man

23

" " animals

5

Relations of ration to external conditions,
e g climate

6

Food requirements in disease

396

Carbohydrates

1

Chemical composition

11

Polysaccharides

111

Starch Inulin

112

Glycogen

113

Cellulose

12

Gums and analogs dextrin

13

Monosaccharides glucose mannose galactose fructose etc.

14

Disaccharides sugar lactose maltose etc

17

Combined carbohydrates

See 612 3981453 Glycoproteins

172

Chitin

173

Glycosides amygdalin salicin phlorizin saponin etc

19

Other carbohydrates pentose inulin

2

Changes of sugars in organism Glycolysis

22

Products of carbohydrates e g glycureonic acid

23

Alcohol in tissues

3

Hydrolytic ferments of carbohydrates and analogs

31

Amylase inulinase cytochrome

32

Saccharoclastic ferments Inversion

4

Formation of carbohydrates in organism

5

Thermodynamic value of carbohydrates

7

Quantity of carbohydrates in foods and tissues

- 612.46 Kidneys Urin
 .461 Chemic composition of urin
- 1 Reaction and physical properties
 - 11 Reaction
 - 12 Density
 - 13 Temperature
 - 17 Urinary technology
 - 174 Staining reactions
 - 175 Spectroscopic examinations
 - 176 Polarimetric "
 - 177 Histochemic "
 - 178 Pathologic urinary technology
 - 179 Densimetry and cryoscopy of urin
 - 2 Urea and nitrogen compounds
 - 31 Determination of quantity of urea Ureameters
 - 32 Determination of total nitrogen
 - 33 Excretion and metabolism of nitrogen
 - 331 In relation to alimentation
 - 332 " " " work
 - 334 Effect of chemic substances (poisons)
 - 335 Influence of temperature
 - 336 " " disease
 - 338 " " nervous system
 - 339 " " animal kind
 - 339 Variability of process in animal kingdom
 - 35 Uric acid See also 612.398193
 - 351 Determination of quantity
 - 354 In animals
 - 355 " normal man
 - 356 " man in disease uric diathesis
 - 359 " other tissues and fluids than urin
 - 36 Other nitrogen products of urin
 - 361 Bases Xanthin bases See also 612.398195
 - 362 Ptomaines
 - 363 Allantoin
 - 364 Peptones See also 612.46668 612.39817
 - 366 Hippuric acid
 - 367 Ammonium and other urates See also 612.398194
 - 368 Ferments See also 612.32327
 - 369 Physiologic albuminuria
 - 37 Coloring matter Pigments urobilin urochrome
 - 6 Salin substances in urin
 - 61 Chlorin salts
 - 62 Phosphorus and its compounds
 - 63 Sulfur and its compounds
 - 64 Gases of urin
 - 8 Nonnitrogenous organic constituents of normal urin
 - 81 Sugars Physiologic glycosuria
 - .462 Urinary toxicity
 - 1 Internal secretion of kidneys
 - .463 Urinary secretion
 - 1 Quantity of urin
 - 2 Elimination of urin
 - 4 Renal circulation
 - 5 Influence of blood and circulation
 - 6 Comparative secretion of the two kidneys
 - 8 Effect of nervous system
 - 81 Glycosuria polyuria after lesion of medulla oblongata

- 612.464 Action of poisons on urinary secretion and their elimination
- 1 Diuretics Polyuria
 See also 612 761 Diuretics in therapeutics
- 2 Toxic albuminurias
 See also 612 46622
- 3 Elimination of poisons by urin
- 4 Toxic glycosuria Phlorizin
 See also 612 46621
- .465 Physiologic morfology of kidneys
- .466 Pathologic physiology of kidneys and urin
- 1 Urinary calculi
- 2 Urin in disease
- 21 Urin in diabetes Chemistry of glycosuria For physiology of
 diabetes see 612 35216
- 22 Urin in album nuria Album nuria in general
 See also 612 461209 612 4642 and 616 634
- 23 Resection and lesions of kidneys experimental and pathologic
 Ligature of ureter etc
- 231 Uremia See also 616 638
- 26 Urin in fever
- 6 Abnormal substances in urin
- 61 Acetonuria Acidosis
- 62 Chyluria
- 63 Other abnormal products of metabolism
 Glycuronic acid See also 612 39621
- 631 Products of intestinal putrefaction Indican
- 64 Biliary pigments Choluria
- 67 Albuminoses and peptones
- 69 Hematuria and hemoglobinuria
- 7 Urinary fermentation Putrefaction of urin
- .467 Urinary discharge
- 1 Physiology of bladder, ureters and urethra
- 21 Micturition
- 2 Absorption in urinary passages
- 3 Innervation of vesical apparatus
 For prostate see 612 617 For action of nervous system on function of kidneys see 612 4638
- .49 Other glands and secretions
- .491 Bone marrow
- .492 Hypophysis or pituitary gland Somatic brain
- 493 Scent glands of animals
- .494 Bartholin's glands
- .495 Carotid gland
- .499 Other glands
 See also 612 664 612 792

DECIMAL CLASSIFICATION

612.5	Animal heat		
51	Sources	Thermogenesis	Calorimetry
.511	Direct calorimetry		
6	Calorimetry in disease		
512	Indirect calorimetry		
1	Influence of alimentation		
3	Effect of respiration		
52	Loss of heat	Radiation	Thermolysis
	Conduct on of animal tissues		
521	Cutaneous radiation		
1	Physiology of clothing		
.523	Loss by pulmonary evaporation		
.524	" " cutaneous evaporation		
53	Regulation of temperature		Heat balance
	Thermotaxis		
.531	Influence of vasomotors		
532	" " muscular movement		
	See also 612 7453		
.533	Effect of perspiration		
534	" " respiration	Thermic polypnea	
535	Thermic centers		
54	Other conditions affecting temperature and thermogenesis		
.541	Effect of baths		
.543	" " inanition		
	See also 612 391		
.544	Effect of poisons		
55	Variations in production and regulation of heat		
.556	In disease: fevers		
56	Temperature of body		
.563	Thermic topography		
58	Hibernating animals		
59	Heat and cold, effect on organism		
	Subdivisible with o l k e 612 c g 612 30074	Effect on muscles	
		612 3908	nervous system
	See also 612 01443		
.591	Effect of heat	Deth from heat	Thermic rigidity
502	Effect of cold	Deth from cold	Rigidity from cold

- 612.6 Reproduction and generation Development**
- .601 Spontaneous generation
See origin and beginnings of life, 576 1
 - .602 Transplantation Animal grafting
May be divided by organs like 612
 - .603 Clottrization Regeneration
May be divided by organs, e. g. 612 60344 Regeneration of thyroid
612 60384 " " eye
 - .604 Reproduction of lower organisms
Protozoa, etc.
 - 1 Asexual fission, division, gemmation or budding or sprouting
 - 2 Sexual conjugation or coöccurrence
 - 3 Variations alternation of generations or metagenesis, pedogenesis parthenogenesis
 - 605 Morphogenesis in general Heredity
See 575 Evolution
 - 1 Heredity
 - 2 Variation, including artificial
 - 3 Hybridization
 - 4 Tumors
Only for physiologic aspect for pathology see 616 992
 - 606 Proportion and determination of sexes
See also Biology, 577 8 Sexes in nature, sexuality
 - .607 Consanguinity Incest
 - .608 Hermaphroditism
 - .609 Theory of evolution Natural selection, darwinism
See 575 Evolution
 - .61 Male functions of generation
For semen see 612 616
 - .612 Erection
Including also the function in general, in either or both sexes See
also 612 183
 - .613 Copulation and fecundation
 - 1 Artificial "
 - 2 Parthenogenesis
Artificial parthenogenesis
 - .616 Testicles Orchitic fluid Sperm
 - 1 Effects of castration Resection or injury, experimental or pathologic, of testicles or of sexual glands in general
 - 2 Physiology of spermatozoa
 - 3 Testicles as internal glands Interstitial cells
 - .617 Appendages of male organs: semeniferous ducts, seminal vesicles
 - .62 Female functions of generation Ovulation
See also 612 612 and 612 6161
 - .621 Physiology of ovaries
See also 612 6303
 - 1 Ablation or injury of ovary, experimental or pathologic
See also 612 6161
 - .622 Physiology of ovum
 - .627 Physiology of uterus
 - 1 Uterin circulation
 - 8 Innervation of uterus

- 612 63 Impregnation Pregnancy Parturition
 See also 612 614
 01 Period of pregnancy
 03 Ovary in pregnancy Corpus luteum
- 64 Development of embryo
 For embryology see 611 013 for abnormal development see 611 012 Teratology 617 3 Deformities
- .646 Physiology of embryo
 " " fetus
 " " newborn
- .647
 " " fetus
 " " newborn
- .648
 " " fetus
 " " newborn
- .649 Appendages of embryo Amniotic fluid
 See also 611 0138 Fetal appendages (in embryology)
- 65 Growth after birth
 See also 612 64
- .651 Metamorphosis of lower animals Larvae
- 66 Period of full development
- .661 Puberty
- .662 Menstruation
- .663 Fecundity
- .664 Lactation and milk
 Physiology of mammary glands
- 1 Physics and chemistry of milk
 12 Sugars
 13 Fats Butter
 14 Albuminoids
 16 Mineral substances
 17 Lactic fermentation Milk ferments
 171 Milk curdling ferment Coagulation of milk
 18 Other constituents
 181 Abnormal substances
 19 Comparison of milk of various animals
 191 Human milk
- 3 Lactic secretion
 31 Quantity
 32 Formation of sugars
 33 " " fats
 34 " " albuminoids
 35 Colostrum
 36 Effect of various agents on secretion
- 4 Action of poisons on milk secretion and their elimination
- 5 Physiologic morphology of milk
- 6 Pathologic changes in lactic secretion
- 7 Digestion of milk
- 8 Innervation of mammary glands
- 67 Period of decline Deth
 See also 577 7
- 68 Longevity
 See also 368 3 Life insurance 519 5 Probabilities 614 28 Deth rates

- 612.7 Motor and vocal apparatus Skin**
- .71 Protoplasm**
 See also 612 014 General physiology of cells and organisms
- .72 Vibratil cilia**
- .73 Smooth muscle**
 Divided like 612 74
- .74 Striped muscle**
 Muscle in general including smooth muscle
- 741 Muscular contraction**
- 1 Myograpy**
- 12 Single contraction of muscle fiber Jerk contraction**
- 13 Tetanic contraction**
- 14 Tonic contraction**
- 15 Influence of chemic substances on muscles**
- 16 Myograpy in disease**
- 2 Change of volume of muscle**
- 3 Muscle wave**
- 4 Elasticity of muscle**
 Myotonometry Effect of weight Tens on
- 6 Muscular irritability Influence of blood**
- 61 Circulation in muscles**
- 62 Effect of stimulation**
- 63 " " electricity**
- 7 Latent period**
 Time elapsing between moment of stimulation and response by an active tissue
- 8 Muscle murmur**
- 9 Physiologic morfology of muscles**
 Histologic phenomena of contraction
- 742 Muscles after deth Rigor mortis**
- 1 Chemic phenomena after deth autolysis**
- .743 Electric phenomena of muscles**
- .744 Chemistry of muscle**
- 1 Normal composition**
- 11 Carbohydrates**
 See also 612 35218 Glycogen of muscles
- 14 Album molds**
- 15 Other organic substances**
- 16 Mineral substances**
 Including water Muscle salts
- 17 Gases**
- 2 Chemic effects of muscular contraction**
- 21 Fatigue**
- 214 Ergograpy Dynamometry Work in general**
- 22 Consumption of oxygen and production of CO₂ in work**
- 23 Function of carbohydrates**
- 24 Relation of chemic changes to work Metabolism in relation to work**
- .745 General effect on organism of muscular contraction or work**
 See also 612 532
- 1 Dynamic effects**
- 3 Thermic "**
- 5 Relations between work and heat**

- 612 746 Pathologic physiology of muscles
 1 Contractures
 4 Tremors Shuddering
 5 Nutrition of muscles Atrophy Degeneration
 Regeneration
 Including nerv influence See also 612 818
- 75 Bones, joints and connectiv tissues
 .751 Chemic composition of bone and connectiv tissue
 See also 612 398146
- 1 Bone
 2 Cartilage
 3 Connectiv tissue
 752 Nutrition of bones
 .753 Growth, cicatrization and regeneration of bone
 .754 Periosteum Perichondrium
 .755 Tendons
- 76 Locomotion
 Principles of animal mechanism comparative study of locomotion preferably class in 591 47
- .761 Chronofotografy: technic
 .763 Special movements Combined movements
 Physiology of vol n playing etc
- 766 Human locomotion
 1 Physiology of exercise and work
 2 Rest
- 767 Animal locomotion Special organs of locomotion
 Swimming bladder of fishes
- 768 Flight
 .769 Biologic adaptation of movement
 77 Electric and phosphorescent animals
 Preferably class 591 57
- 771 Electric animals
 772 Phosphorescent animals
- 78 Voice and speech
 See also 784 9 Vocal hygiene 808 5 Elocution 534 7 Sound
- .781 Sensibility of larynx
 .782 Movements and innervation of larynx
 1 Influence of spinal accessory nerv
 See also 612 819923
 2 Influence of pneumogastric
 See also 612 819917
 3 Laryngoscopy
 4 Movements of glottis
 5 Epiglottis
- .783 Artificial larynx
 .784 Singing Timbre, quality Voice register
 .785 Larynx in deglutition and other laryngeal functions
 See also 652 312
- 786 Organs of sound in lower animals
 788 Larynx of birds

- 612 789 **Speech Language**
- 1 Function of mouth and nose
- 2 " " lips and soft palate
- 3 Innervation of organs of speech **Aphasia**
 See also 616 855
- 4 Vowels and consonants
- 5 Ventriloquism
 See also 791 1 Ventriloquism as an amusement
- 79 **Skin**
- 790 5 Chem c composition
- 791 **Absorption**
 See also 612 384
- 1 Penetration by solids
- 2 Absorption of fats
- 3 " " solutions
- 4 " " liquids
- 5 " " gases
- 792 **Cutaneous glands and secretion**
- 1 Swet Chem c composition
- 12 Toxic act on of swet
- 4 Action of chemic substances on swet secretion
- 42 El m nation of po sons by swet
- 5 Physiologic morfology of swet
- 6 Pathologic changes of swet
- 8 Action of nervous system on cutaneous exhalation
- 9 Other cutaneous secretions
- 793 **Cutaneous respiration**
- 4 Effect of suspended transpiration closing pores by
 liniments etc
- 5 Effect of chemic substances on skin
 See also 612 7924
- 794 **Cutaneous sensibility**
- 795 **Electric conductivity and resistance of skin**
 See also 612 024422
- 796 **Chromatophores and skin pigments**
- 798 **Trofic nervs of skin**
- 799 **Growth and physiology of nails and hair**

DECIMAL CLASSIFICATION

612 8 Nervous system

- .801 *Theory of nervous system and innervation*
 - 1 Dynamogenesis and inhibition
 - 2 Action of nervous system on chemic phenomena
 - 3 Effect on morphology and evolution
 - See also 612 605
- 81 Peripheral nervous system Nerv fibers
- .811 Distinction between sensory and motor nerves
 - 3 Ganglions of sensory nerves
 - 4 Influence of sensibility on movement and of movement on sensibility
- 812 Recurrent sensibility
- .813 *Electric phenomena of nerves and muscles*
 - Muscle nerve experiments as indication of nervous process
 - For muscle phenomena see 612 743
 - 2 Negativ variations
 - 3 Electrotonus
- .814 Chemic and thermic phenomena of nervous stimulation
 - For stimulation of nerve centers see 612 822
- .815 Physiologic morphology of nervous stimulation
 - 1 Sensory terminations
 - 2 Motor "
- .816 Irritability of nerves and muscles
 - Nerv muscle or nerve gland physiology
 - 1 Action of electricity
 - 2 Theories of nerve waves
 - 3 Nervous conductivity
 - 4 Effect of blood on nerves Anemia
 - 5 Rapidity of nerve waves
 - 6 Nerv fatigue
 - 7 Action of chemic substances on nervous irritability
- .817 Effect of nerves on muscles and glands
 - 1 Chemic substances Curare poisons
 - 2 Voluntary contraction
 - 3 Tonicity Atrophy of muscles after cutting nerves etc
 - See also 612 7462
- .818 Trophic nerves
 - 1 Degeneration regeneration and cicatrization
 - 1 Degeneration 2 Regeneration 3 Cicatrization

612.819

Special nerves

Whenever possible class according to function rather than according to a particular nerve classing here only special nerve physiology

- 1 1st pair olfactory
- 2 2d pair optic
See also 612.843
- 3 3d pair motoroculi or oculomoto
- 31 Innervation of iris
See also 612.8422
- 32 Innervation of eyelids
See also 612.847
- 33 Innervation of eye muscles
- 4 4th pair trochlear or pathetic
- 5 5th " trigeminal
- 52 Sensory action
- 53 Trofic action
- 6 6th pair external oculomoto or abducent
- 7 7th " facial
- 71 Effect on facial muscles
- 73 " " respiration
- 74 " " hearing
- 75 " " deglutition and taste
- 77 " " salivation Chorda tympani
See also 612.31387
- 78 Pathology Facial paralysis
- 8 8th pair auditory
See also 612.8585
- 9 9th pair glossopharyngeal
- 91 10th " pneumogastric or vagus
- 911 Effect on heart and circulation
See also 612.1781
- 912 Effect on respiration
See also 612.287
- 913 Effect on digestive organs
See also 612.328 612.338 612.348 612.358 612.368
- 915 Effect on kidneys and other glands
See also 612.4
- 917 Effect on voice production
See also 612.7822
- 918 Section of vagus and pneumogastric
- 92 11th pair spinal accessory
- 921 Anastomosis with vagus
- 922 Innervation of respiratory organs
See also 612.28
- 923 Innervation of vocal organs
See also 612.7893
- 93 12th pair hypoglossal
- 94 Spinal nerves in particular
- 941 Phrenic nerve

- 612.82 Nervous centers Brain
 .821 Physiologic psychology
 Usually better classed in 131 Mental physiology
- 1 Time of reaction to stimulation Psychometry
- 2 Attention Memory Association Imagination
- 3 Instinct Intelligence Emotions Sensibility
- 31 Comparative psychology
- 311 Nonautomatic actions of animals Anticlimax
- 312 Automatic " " "
- For physiologic aspect see 612.829
- 313 Instincts of animals Behavior See also 591.51
- 33 Emotions Sensibility
- 34 Inhibition of movement Will Habit Impulse
- 35 Associated movements
- 4 Action of poisons on intelligence
 See also 613.8 Hygiene of nervous system
 " " 615.9 Toxicology
- 41 Alkaloids
- 42 Nonalkaloid anesthetics
 See also Therapeutics 615.96 Cerebral poisons
- 44 Alcohol
 See also Therapeutics 615.964 Alcohol as cerebral poison
 Pathology 616.861 Alcoholism
- 5 Effect of disease on intelligence
- 6 Psychic reflexes
- 7 Sleep Hypnotism
 See also 135 Sleep Dreams
 Hypnotism See also 134 Hypnotism
- 71 Theories of sleep
- 74 Cerebral circulation in sleep
- 75 Chemical phenomena of organism in sleep
- 76 Dreams
- 8 Sense in general and theories of perception
- 88 Psychophysical laws
- 89 Sensory delusions
 For optical illusions see also 612.84374
- 322 Nervous cells and nervous centers
- 1 Chemistry of nervous tissue
 Metabolism in nerves
- 2 Chemical phenomena of nervous excitation
 For stimulation of nerve fibers see 612.814
- 3 Electromotive phenomena of nervous excitation
- 4 Thermic " " " "
- 5 Physiologic morphology " " "
- 53 Effects of fatigue
- 54 " " poisons
- 56 Degeneration and regeneration of centers
- 6 Effects of removal and experimental, pathologic or
 teratologic lesion of nervous centers
- 61 Movement in a circle (motus circularis manège)
- 7 Decapitation
- 8 Action of central nervous system on chemical
 phenomena of organism
 See also 612.01538 612.8012
- 81 Effect of chemical changes on centers

612 823	<i>Weight and general morphology of brain</i>		
5	Conduction in centers		
824	<i>Cerebral circulation</i>		
1	Neurolymf neurolymfa or cerebrospinal fluid		
	Meninges	Choroid plexus	
2	Brain movements		
3	Cerebral vasomotors		
4	"	anemia	
5	Pressure on nerv centers		
5,	Compression and concussion of brain	Abnormal pressure	
6	Temperature of blood in nerv centers		
	Effect of abnormal pressure		
.825	<i>Cerebral convolutions (cortex)</i>		
1	Cortical excitability		
2	Psychomotiv centers	Localizations	
23	Inhibitory actions		
	See also 612 8338		
24	Localization in man		
249	Speech	Aphasia	
	See also 612 7893		
25	Localization in animals		
26	Topography of localizations		
261	Frontal lobe		
262	Occip tal "		
263	Parietal "		
264	Temporal "		
265	Central "		
266	Olfactory "		
3	Cortical epilepsy		
	See also 616 853		
5	Sensory functions of convolutions		
	Convolut ons as seat of senses		
54	Sight		
55	Hearing		
56	Smell		
57	Taste		
58	Muscular sense		
	See also 612 855		
59	Touch		
	See also 612 85		
8	Intellectual functions		
	Only for phys ology of these functions		
826	<i>Cerebral ganglions, commissures, etc.</i>		
1	Optostriate body and callosum		
	Or opt o thalami, striatum and callosum		
2	Conduction in the brain		
	See also 612 8235		
3	Crura or cerebral peduncles	Epiphysis	Infundi bulum
5	Quadrngeminum	Optic lobes	
7	Cerebellar peduncles or prepeduncles		
8	Pons		

DECIMAL CLASSIFICATION

612 827	Cerebellum		
828	Medulla oblongata or postoblongata		
.829	Special physiology of central nervous system of invertebrates		
	See also 612 8336		
1	Regulating effect of ganglia	Circular movements (manages)	
2	Chain of ganglions	Network of nerves or rete nervosum	
3	Reflex movement		
	Locomotion in respect to physiology of nervous system		
32	Reflexes proper		
33	Rhythm	Refractory period	
33	Tonicity	Tonic reflex	
34	Coordination		
.83	Spinal cord or myel		
.831	Conduction in the cord		
	See also 612 8335		
.832	Excitability of cord		
.833	Reflex action		
	Subdivided like 612 e g	612 83327	Cardiac reflexes
		612 833627	Uterine "
		612 83376	Limb reflexes knee jerk
8	Action of superior nerv centers on reflexes		
9	Other phenomena of reflex action		
91	Rapidity of reflexes		
92	Pathology		
93	Effect of anemia		
94	Action of poisons on reflexes		
95	Rhythm in general		
951	Refractory period		
96	Coordination		
97	Other phenomena		
	e g reflexes according to nature of impulse fatigue etc		
834	Cord as center of innervation		
835	Degeneration and regeneration of cord	Atrophies	
84	Physiologic optics	Sight	
.841	Fibrous tunics of eye		
1	Cornea	Conjunctiva	Anterior chamber
5	Sclera		
842	Vascular tunics	Iris	Choroid Ciliary body
1	Iris accommodation	Pupillary reflex	
	See also 612 844 for general papers on accommodation		
11	Pupillometers		
2	Action of nerves and nerv centers on pupil		
3	Effects of light		
4	Action of chemic substances on iris	Atropin	See 615 734
5	Choroid	Eye pigments	
6	Ocular circulation	Intraocular pressure	
61	Ophthalmometers		

612 843

Optic nerv Retina

See also 612 8192 ad pair of cranial nervs opt c

- 1 Physiologic morfology Retinal purple
- 12 Ophthalmoscope
- 13 Retinal circulation
- 14 " purple
- 15 Physiologic morfology of retina
B ad spot yellow spot
- 2 Irradiation Simultaneous induction
- 3 Color sense Chromatic sensibility
- 301 Theory
- 6 Miscellaneous theories of color sensation
- 63 3-color theory (Young Helmholtz)
- 64 4-color theor es
- 642 Color-contrast theory (Hering)
- 643 Gradation theory (Wundt)
- 644 Genetic theory (Ladd-Frankl n)
- 647 Zone theories
- 2 Duplex or dupl c ty theory (von Kries)
- 3 Theory of indirect values (Müller)
- 31 Color sight
Power to distinguish colors
For color blindness see 612 8455 617 75
- 32 Sensitivness to color Color preferences
For pathology of chromatic sens b l ty see 612 8455
- 34 Mixture of colors
- 35 Contrast " "
- 3501 Theory
- 16 Miscellaneous theories of color contrast
- 16 Psychologic theory
Deception of judgment (Helmholtz)
- 166 Physiologic theory (Hering)
- 352 Simultaneous contrast
- 353 Successiv "
- 4 Entoptic phenomena
Purkinje s figures or images, Sanson s images
- 5 Persistence of retinal impressions
- 52 After images or after sensations Successiv images
- 522 Positiv
- 523 Negativ or complementary
- 6 Field of vision Visual acuteness and sensibility
- 61 Photometry
Photometric technic
- 62 Field of vision
- 622 Direct vision
- 623 Indirect vision Perimetry
- 63 Visual acuteness and sensibility
- 632 Retinal adaptation and fatigue
- 633 Twilight vision Purkinje phenomenon Purkinje spectrum
Sensibility to contrast
- 7 Conduction in the brain Perception
- 71 Histology of fibrillae Center of sight
- 72 Optic perceptions Localization of image in space
- 721 B nocular and monocular perception
- 722 Stereoscopy Binocular fusion and rivalry Pseudo-
scopic vision

DECIMAL CLASSIFICATION

612 85873	Subjectiv sensations
74	Musical physiology and psychology
	Distinction of tones and quality or tone color (timbre)
742	Tonal characteristics
2	Pitch
3	Loudness, strength or volume
4	Character, quality, timbre, tone color or brightness
	Clang tint
743	Analysis of tones
2	Simple tones
3	Compound tones or natural harmonics
32	Overtones
33	Partial tones
4	Combination or Tartini's tones
41	1st order
412	Difference or differential tone
413	Summational tone
42	Higher orders
744	Consonance and dissonance intervals
1	Theories of consonance and dissonance
12	Theory of beats (Helmholtz)
13	" " tonal fusion (Stumpf)
14	Genetic theory (Moore)
745	Melody and rhythm
746	Sensitiveness to tone
75	Tone preferences
75	Binaural and monaural hearing
751	Localization of sound in space
	Estimation and effect of distance
2	Interaural differences of sound intensity
3	Complexity of pitches
4	Movements of head
76	Sensibility of living beings to sound and vibrations
	Otocysts
77	Pathology
	Deafness etc
	See also 617 8 Diseases of ear
78	Tests of auditory perception
8	Auditory reflexes
.86	Smell
	See also 612 82556 Seat of smell
.861	Organs of smell
.867	Perceptions
	Conduction in brain
1	Olfactory acuteness
2	" center in brain
3	Subjectiv odor sensations
4	Fusion of odors
7	Pathology
8	Tests of olfactory perception
87	Taste
.875	Function of lingual nerve
	See also 612 8195
.877	Function of chorda tympani
	See also 612 81977
879	Function of glossopharyngeal nerve
	See also 612 8199

612 88	Touch	Tactil sense	Equilibrium
.881	Notion of space		
.882	Sense of temperature		
.883	Sense of pressure		
	Includ ng all related phenomena e g tickling		
1	Esthesiometers		
.884	Sensibility to pain		
.885	Muscular sense	Power sense	
.886	Sense of equilibrium		
1	Sense of direction and orientation		
2	Seasickness		
3	Vertigo		
	See also 612 8583		
9	Function of special organs		
	Funct on of lateral line of fishes and other special organs of lower animals		
.887	Anesthesia, hyperesthesia, synesthesia		
89	Sympathetic nervous system		
8903	Trophic action		
8905	Reflex phenomena		
.891	Cervical ganglions and plexus		
.892	Thoracic	"	"
893	Abdominal	"	"
.896	Action on eyes; iris		
	See also 612 8422		
.897	Action on hart		
	See also 612 1782		
.898	Action on digestiv tract; alimentary canal		
	See also 612 3 and spec al subdivis ons		
.899	Effect on blood vessels		
	See also 612 28		

613 General and Personal Hygiene

Care of Health Prophylaxis Individual Health Laws of Health

02 Compendia 03 Dictionaries Cyclopedias 04 Essays 05 Periodicals

06 Societies 07 Study and Teaching 078 Sanitary Appliances 08 Collections

09 History Description Reports etc. divided like 930-999

.1 Air and Light.

For Air Analysis see 543.7 Air Pollution 614.7 Ventilation 628.8

11 Climate Acclimation See 351.5 Meteorology 615.834 Therapeutics
614.42 Geographic distribution of disease

12 Health Resorts Mountain Sea shore

Regions exempt from special diseases

13 Seasons Time of Day

14 Malaria Moisture Ground Air See Public Health 614.775 614.778
and 614.772

15 Purification of Air

16 Special Influences Ozone, Electricity etc

17 Quantity of Air Necessary

18 Temperature See also 536.5 Heat 532.52 Meteorology

19 Sunlight

2 Food Dietetics.

For Food Analysis see 543.2 Adulterations 614.31 Digestion and Nutrition
612.3

21 Diets

Including food for special classes of people literary men soldiers etc

22 Food for Infants

23 Food for the Sick

Including means for giving nutrition baths enemata forced alimentation
etc

24 Fasting Famine Starvation

25 Excess of Food

26 Vegetable Food

27 Fruits

28 Animal Food Meats

29 Fish Oysters etc

.3 Beverages.

For alcoholic beverages see 613.81 and 178 Temperance Ethics Inspection of
beverages 614.34

31 Water as a Beverage

32 Impurities in Water and Ice See also 628.16 Water supply of towns

33 Microscopic Analysis For Chemical Analysis see 543.3

34 Biologic Analysis

35 Purification Filtration Boiling Chemical etc See also 628.16
Water Supply

36 Cold Drinks

37 Hot Drinks Tea Coffee etc See also 614.347 Adulterations

38 Mineral Waters Carbonated Waters etc See also 614.348 Adultera-
tions 615.79 Therapeutics

39 Other Beverages

• 613 4

Cleanliness of Body. Clothing.

See also 645 Clothing Toilet etc 391 Customs Care of Person Bathing
Toilet For Therapeutic baths electric sulphur etc 615 61.

41

Baths.

42

Warm

43

Cold. For Swimming see 797 2

44

Douche or Shower

45

Sea Salt

46

Hot Air Turkish Russian, Roman, etc.

47

Public

48

Clothing

1 Material wool cotton etc

2 Quantity

3 Cleanliness

4 Pressure Corsets garters tight boots support from hips etc

49

Care of special parts of body

• 5

Human Habitation and Resort

For Heating see 497 Ventilation 613 8 House drainage 613 6 Sanitation of
towns 613 4 Industrial sanitation 613 5

These subjects partly Public and partly Private Hygiene as for convenience
grouped together here

51

Homes

52

Hotels

53

Tenements

54

Schools Colleges See School hygiene 311 7

55

Churches Theaters Halls etc

56

Hospitals Asylums

57

Prisons Reformatories

58

59

House Furnishing

1 Bed and Bedding

2 Curtains Tapestries

3 Carpets Rugs Floors

4 Wall Paper

5 House Cleaning

• 6

Hygiene of Employment

For Labor of children see 311 3 Mining dangers and accidents 611 3 see also
Laboring classes 311 3 Industrial sanitation 613 5 Nuances 614 7

61

Over hours Over work

Occupations made Injurious

62

By Inhalation of Vapors and Gases

Bleachers match makers lard refiners etc

63

By Inhalation of Dust or by Absorption

Grinders stone-cutters millers wool operatives hair pickers
type founders grocers etc

64

By Elevated Low or Variable Temperature

Bakers, forgers men mariners, fishermen, farmers laborers etc

65

By Over use of certain Organs By Constrained Attitude and
Sedentary Life

Engravers public speakers copyists printers salesmen, clerks
literary men etc See also Mental hygiene 121 3

66

By Accidents See Public health 612 3 Protection from accidents

Machinists, quarrymen caisson workers manufacturers of ex-
plosives etc

67

Military Hygiene Barracks Camp and Tent Life

68

Naval Hygiene Ship Life

69

Hygiene of Travel and Exploration.

- 614.3 Adulterations inspection of articles liable to affect public health Pure food laws**
 Public analysts State laboratories For chemic analysis see 543
- 31 Inspection of food For chemic analysis see 543 1 Hygiene 613 2
- 311 Sugars Sirups Confectionery
- 312 Cereals Starches Bred
- 313 Lards Fats Oils See 614 32, 5-6 Butter oleomargarin
- 314 Spices Condiments
- 315 Yeast Baking powders Cream of tartar
- 316 Fresh food Vegetables fruits
- 317 Meats Fish (fresh)
- 318 Cand or preservd food Vegetables fruits
- 319 Meat Fish Oysters (preservd)
- 32 Milk and milk products
- 321 Milk analysis See also chemistry 543 2 dairy 637 1277
- 322 Milk of known purity
- 323 Milk sold to consumer
- 324 Cream Skim'd milk Condens'd milk Buttermilk Kumis*
- 325 Butter and its imitations
- 326 Oleomargarin
- 327 Cheese and its imitations
- 33 Other articles of food
- 34 Inspection of beverages
 For chemic analysis see 543 1 hygiene 613 3
- 341 Fermented
- 342 Wine
- 343 Brew'd
- 344 Beer
- 345 Distild
- 346 Fruit drinks lemonade shrub etc
- 347 Tea Coffee Chocolate Coco See also 613 37 Hygiene
- 348 Mineral waters Soda water
 See also 613 38 Hygiene 615 79 Therapeutics
- 349 Mixt drinks
- 35 Inspection of drugs For chemic analysis see 543 4
- 351 Official or pharmacopeial drugs
- 352 Nonofficial drugs
- 353 Empiric or patent medicins See also 614 27 State control
- 354 Cosmetics
- 355 Poisonous cosmetics
- 36 Inspection of tobacco
- 37 Inspection of pigments wall and other papers, textil fabrics toys etc
- 4 Contagious and infectious diseases general
- 41 Causes and origin
 See 589 05 Bacteria microbes 616 01 Germ theory of disease
- 42 Geographic distribution Climatology
 Divided like 930-999
- 43 Modes of propagation and communication

- 614 44 Prevention and restriction See also Ambulances, 614 88a
- .45 Isolation, lazarettos, etc.
- .46 Quarantine, etc
- .461 Maritime and aeronautic quarantine
- .462 Inland quarantine
- .463 Control of rags, etc.
- 47 Protective inoculation
- .471 Against smallpox See also 616 912, Pathology
- .472 Variolation
- .473 Vaccination
- 1 Bovine vaccination
- 2 Humanized vaccination
- 3 Vaccinal syphilis
- 4 Revaccination
- 5 Vaccinisation
- 6 Revaccinisation
- 7 Retrovaccination
- 8 Compulsory vaccination
- 9 Optional vaccination
- 474 Antivaccination
- .475 Against cholera See also 616 932, Pathology
- .476 " yellow fever See also 616 928 Pathology
- .477 " hydrophobia Pasteurism
- See also 616 933 Pathology
- .478 Against other diseases
- Divided like 616
- 48 Disinfection
- Houses clothing rags, workshops, cars, ships camps, air, soil, persons, sewers, vaults, excreta Ded see 614 64 Embalming, etc
- .481 Fumigating and other apparatus
- 1 Stationary
- 2 Portable
- .482 Disinfectants Antiseptics Deodorizers
- Treated with reference to public health See also Materia medica 615 777 and 615 778
- .483 Heat
- .484 Chemic disinfectants
- .485 Carbolic
- .486 Salicylic
- .487 Chlorids
- .488 Copperas
- 49 Epidemics Plagues
- Divided like 930-999
- .5 Contagious and infectious diseases: special
- These beds are for public health discussions only For treatment, etc see Pathology 616
- 51 Filth diseases
- 511 Typhoid or enteric fever
- 512 Diphtheria
- 513 Diarrheal diseases
- .514 Cholera
- .515 Cholera-infantum
- .516 Dysenter
- .517 Diarrhea

- 614 52 Exanthemata
 - 521 Smallpox
 - 522 Scarlet fever
 - 523 Measles
 - 524 Rothein rubella rubeola
 - 525 Chickenpox
 - 526 Typhus
- 53 Malarial fevers
 - 531 Intermittent fever
 - 532 Remittent fever
- 54 Other contagious and infectious diseases
 - 541 Yellow fever
 - 542 Phthisis Tuberculosis
 - 543 Whooping cough
 - 544 Mumps
 - 545 Puerperal fever *See also 618 72*
 - 546 Leprosy
 - 547 Syphilis
 - 548 Gonorrhea
- 55 Parasitic diseases
 - See also 616 96 Pathology*
- 56 Diseases communicated from lower animals
 - 561 Anthrax Charbon
 - 562 Trichiniasis
 - 563 Hydrophobia
 - 564 Glanders
- 6 Disposal of the dead
 - See customs 393 Treatment of the dead*
 - 61 Burial
 - 611 Earth burial
 - 612 Tomb burial
 - 613 Burials in churches Intramural
 - 614 Use of coffins
 - 62 Cremation Crematories
 - 63 Transportation of the dead
 - 64 Embalming and disinfection of the dead *Use of ice*
 - See 614.43 Disinfection 615 777 Disinfectants*
 - 65 Effect of cemeteries on health
 - 651 By water pollution
 - 652 ' air "
 - 68 Morgues

- 614 7 Hygiene of the air and ground Nuisances**
 See 613 1 Air (Hygiene) 613 6 Hygiene of employment 628 5 Industrial sanitation
- 71 Air pollution by dust and smoke [works
 72 Air pollution by noxious gases mineral trades, chemic
 721 Carbon compounds
 723 Carbonic oxid, carbonic acid, carburetted hydrogen
 723 Illuminating gases Gas works
 724 Mineral oil refining
 725 Sulfur compounds
 726 Chlorin "
 727 Nitrogen "
 728 Phosphorus "
 729 Other
 73 Air pollution by vegetable trades
 731 Brewing
 732 Distilling
 733 Vinegar making
 734 Sugar refining
 735 Charcoal burning
 736 Varnish making
 74 Air pollution by animal trades
 741 Slaughter houses Abattoirs Fish
 742 Rendering works Boneboiling Tripe and gut cleaning
 743 Pork packing Lard refining
 744 Soap making
 745 Tanning
 746 Glue making
 747 Lampblack
 748 Commercial fertilizers
 75 Storage and handling of noxious and offensiv materials
 76 Other air pollutions See 628 Sanitary engineering
 761 Stables Stable manure
 762 Hog stys
 763 Offal Ded and diseased animals and fish
 764 Vaults Cesspools Water closets priv es urinals n ght soil
 765 Sewers and sewer outlets Sewer gas
 77 Conditions of soil as affecting helth
 Topograpy Sanitary Survays
 771 Analysis of soils See 543 7 Chemistry
 772 Soil moisture
 Hygiene of natural water courses and of marshes See 613 14 Hygiene
 773 Ground atmosphere See 613 14 Hygiene
 774 Solid constituents of soil
 775 Malarious soils See 613 14 Hygiene
 776 Recovery of soils from pollution

- 614 78 Air and ground in towns
 - 781 Laying out of towns and streets
 - 782 Subways and elevated ways See 628 47 Sanitation of towns
 - 783 Parks Air spaces
 - 784 Hight of bildings and proportion of occupiable area
See 614 85 Bilding laws
- * .8 Protection of human life from accidents, casualties, etc.
 - Safety appliances
See 613 66 Hygiene of employment
 - 81 Drowning
 - 811 Rescue of the drowning
 - 812 Resuscitation of the drownd First help Pulmotors
 - 82 Suffocation
By gases in vaults mines etc see also 622 8 Mining dangers By illuminat
ing gases
 - 83 Explosions Machinery inspection
 - 831 Manufacture storage and transport of explosivs and
combustibles
See also 662 Chem technology
 - 832 Gunpowder
 - 833 Dynamite etc
 - 834 Inspection of kerosene etc
 - 835 " of illuminating gas
 - 836 " of electric apparatus
 - 837 " of steam boilers
 - 838 " of machinery
 - 84 Fires
 - 841 Fire prevention
 - 842 " detection
 - 843 " extinction See 352 3 Fire department
 - 844 Automatic
 - 845 Chemic extinguishers
 - 846 Fire engines Water towers See 621 68 Pumping engines
 - 847 Fire escapes and other apparatus
 - 848 " exits etc from public bildings
 - 85 Industrial safety Bilding laws and inspection
See 614 784 Hight of bildings
 - 86 Protection of travelers
 - 861 Travel on land
 - 862 " " highways
 - 863 " " railroads
 - 864 " " water
 - 865 Lighthouses buoys etc
 - 866 Pilots
 - 867 Boats life preservers etc
 - 868 Rescue of shipwreckt Lifesaving servis
 - 87 Accidents under other special conditions
Exposure to cold Hospice of St Bernard ski safety etc
 - 88 Aid to injured
 - 881 Ambulance
 - 882 Ambulance for contagious diseases See also 614 44
 - 883 Bed wagon

- 614 9 Hygiene of animals Veterinary sanitation
 91 Infectious diseases of domestic animals
 92 Parasites of animals See 591.69 Economic zoology
 93 Animal diseases communicable to man See also 614.36
 94 Care and housing of animals
 95 Feeding of animals
 96 Transportation of animals
 97 Methods of slaughtering
 971 Painless extinction of animal life

615 Materia medica and therapeutics

01 Compendia 05 Pharmaceutic journals 06 Pharmaceutic societies
 07 Education schools of pharmacy 09 History

.1 Materia medica Drugs Pharmacology

For examining boards laws etc see 614.24 Registration of pharmacists See also 614.35 Adulteration of drugs 543.4 Chemical analysis

- 11 Pharmacopœias
 12 Dispensatories
 13 Formularies
 14 Prescription writing Posology
 2 Inorganic and synthetic drugs

Include here synthetic drugs class according to most important inorganic elements

Divided like 546 e.g. 615.218 Phosphorus 615.258 Mercury 615.272 Iron
 See also note to 615.7

3 Organic drugs

See also note to 615.7

- 31 Carbon compounds Divided chemically like 547
 32 Vegetable products Divided botanically like 580
 33 Organic products Divided by character
 1 Starches 2 Sugar 3 Glucosides 4 Tannins 5 Gums 6 Drugs
 containing alkaloids 7 Bitters 8 Organic acids
 34 Fixed oils and acids
 35 Ferments diastase pepsin etc
 36 Organotherapy
 37 Serotherapy Immunology
 Opsonic theory see also physiology 612.118.223
 Vaccine therapy see also public health 614.473 Vaccination
 39 Animal products Divided zoologically like 590

.4 Practical pharmacy

5 Therapeutics Action of medicins in general

- 51 Certainty of medicins
 52 Antagonism of medicins
 53 Law of similars Homeopathy
 Homeopathic works as class with the subjects treated. This head is for
 Hahnemann's theory only
 54 Influence of age
 Infant therapeutics Therapeutics of old age
 55 Influence of sex
 56 Influence of environment
 57 Influence of idiosyncrasy

- 615 6 Administration of medicines
- 61 By stomach
- 62 " rectum
- 63 " subcutaneous tissue Hypodermic medication
- 64 " lungs Inhalation See also 612 385 Absorption
- 65 " veins Transfusion of blood
- 66 " serous and mucous membranes Peritoneum vagina etc
See also 612 387 Absorption
- 67 " skin Baths
See also physiology 612 384
- .7 Medicines grouped by effects
- Treatises on specific drugs digitalis ergot etc are classed in the divisions of materia medica 615 2-3 e.g. iron 615 272 digitalis 615 32381 But discussions of the drug in relation to a specific type of effect may be classed with that effect e.g. Digitalis as a circulatory stimulant 615 711
- 71 Drugs acting on circulatory system
- 711 Stimulants
Alcohol, ammonia, digitalis coffee ergot
- 716 Depressants
Aconite veratrum group nitrates
- 72 Drugs acting on respiratory system
- 721 Expectorants
- 726 Errhines Sneezing
- 73 Drugs acting on digestive system
- 731 Emetics
Ipecac mustard metallic salts apomorphin
- 732 Cathartics
1 Laxatives 2 Salines 3 Purgatives 4 Hydragogs 5 Drastics
6 Mercurials
- 733 Anthelmintics
- 734 Aids to digestion
1 Bitters tonics 2 Ferments pepsin pancreatin, etc 3 Acids
antacids
- 735 Demulcents emollients etc
Bismuth, oxalate of cerium etc
- 74 Drugs acting on glandular system
- 741 Sialagoges (Saliva)
- 742 Cholagoges (Bile)
- 743 Diaphoretics (Perspiration)
Pilocarpin, heat exercise
- 75 Antipyretics Antiperiodics
Quinin, salicylates coal tar products kaolin antipyrin antifebrin cold,
baths. See also 613.41 Baths
- 76 Drugs acting on genito-urinary system
- 761 Diuretics
Water citrates acetates digitalis caffeine copaliba
- 766 Uterines Oxytocics
Viburnum, ergot etc.

- 615 77 External agencies
- 771 Irritating
- 772 Astringents
- 773 Rubefacients
- 774 Epispastics Blisters
- 775 Escharotics Caustic potassa
- 776 Protectiv Emollient
- Fats oils powders starch bismuth oxid of zinc
- 777 Deodorants Disinfectants
- See 614 48 Disinfection 614 64 Disinfection of dead
- 778 Antiseptics Germicides
- 78 Drugs acting on nervous system See also 615 95 Neurotic poisons
- 781 Anesthetics Chloroform ether
- 782 Hypnotics Chloral bromide
- 783 Analgesics Opium
- 784 Mydriatics Belladonna
- 785 Excitants Strychnin
- 786 Depressants Conium
- 788
- 789 Other drugs
- Camfor valerian asafoetida
- 79 Mineral waters See also 613 38 Hygiene 553 7 Occurrence in nature
- 8 Other remedies
- 81 Mechanical remedies
- 811 Bloodletting Venesection Cupping
- 812 Setons and issues
- 813 Bandages Ligatures
- 814 Acupuncture
- 815 Pneumatic aspiration
- 82 Manipulation Exercise
- Massage osteopathy cut v gymnastics See also hygiene 613 71 Gymnastics
- 83 Imponderable remedies
- 831 Light Blue glass
- 832 Temperature heat cold
- 833 Moisture
- 834 Climate See also 613 11 Hygiene
- 835 Altitude
- Decrease of oxygen and increase of nitrogen with increasing elevation
- 836 Pneumatic differentiation
- 837 Music
- Re ✓ 84 Electricity Electrotherapeutics Radiotherapy
- See also 537 87 and 621 3915

- 615 85 Cures
- 851 Mind cure Influence of mind on body
 Mental condition as affecting disease Occasional as remedy
 See also 131 32 Mental health
- 852 Faith cure Christian science See 265 8 Religion
 See also state control of medicine 614 24 Christian science theology
 230 95 sects 289 5
- 853 Hydrotherapy Water cure
- 854 Food cures grapes, milk, beef, etc.
- 855 Thomsonianism Herb doctors
- 856 Perkinism Metallic tractors
- 86
- 87
- 88 Patent medicines
- 89 Ancient and medieval remedies
 Including those of modern uncivilized peoples
- 9 Toxicology Poisons
 For other relations see Poisons in Relative index following Tables
- 91 Irritant poisons
- 92 Mineral irritants
- 921 Acid poisons
- 922 Alkaline poisons
- 923 Nonmetallic poisons
- 924 Phosphorus See also 615 218 Drugs
- 925 Metallic poisons
- 926 Arsenic See also 615 219 Drug
- 927 Mercury See also 615 258 Drugs
- 928 Lead For painters' colic see 717 97 See also 615 251 Drugs
- 929 Copper See also 615 256 Drugs
- 93 Vegetable irritants
 Hellebore, aloes, croton oil, etc.
- 94 Animal poisons
 Cantharides, diseased meat, ptomaines, tyrotoxin, etc.
- 95 Neurotic poisons
 See also 615 78 Drugs acting on nervous system
- 96 Cerebral or narcotic poisons Carbonic acid and acid
- 961 Opium
- 962 Prussic acid
- 963 Cyanide
- 964 Alcohol
- 965 Ether
- 966 Chloroform
- 967 Chloral hydrate
- 97 Spinal poisons
 Nuxvomica, strychnia
- 98 Cerebrospinal poisons
 Aconite, belladonna, lobelia
- 99 Cerebrocardiac poisons
 Digitalis, tobacco

616 Pathology Diseases Treatment

May be subdivided by e like 610 I wish Use 616 or for etiology germ theory,
bacteriolog classificat on of diseases Use 6 6 075 for diagnos s study of disease
and subdivide t as follows 1 Pul e 2 Lung 3 Eye sk n etc 4 Aus-
cultat on percussio 5 Thermometry 6 Chemistry urin analys 7 M
icroscopy radiology etc 8 Pathologic anatomy 9 Postmortem examination

I Diseases of circulatory system

- 11 Membranes of the hart
- 12 Hart Angina pectoris
- 13 Arteries
- 14 Veins
- 15 Blood

2 Diseases of respiratory system

- 201 Croup
- 202 Hay asthma hay fever
- 203 Influenza epidemic catarrh
- 204 Whooping cough See also 614 543
- 205 Coryza catarrh
- 206 Asphyxia
- 21 Nose Naso-pharyngeal space
- 22 Larynx
- 23 Trachea Bronchi Bronchitis Asthma
- ✓24 Lungs
- 241 Pneumonia lung fever
- 242 Congestion
- 243 Hemorrhage
- 244 Abscess
- 245 Gangrene
- 246 Phthisis tuberculosis consumption See also 614 548
- 247 Embolism and aneurism of pulmonary artery
- 248 Emphysema
- 249 Collapse
- 25 Pleura Pleurisy

3 Diseases of the digestiv system

For diseases of the h see 6 7 6

- 31 Mouth tung fauces Sore throat quinsy mumps
See also 614 544
- 32 Pharynx Esophagus
- 33 Stomach Gastritis dyspepsia vomiting
- 34 Intestins Hernia diarrhea constipation colic
- 35 Rectum Anus Piles
- 36 Liver Gall bladder Jaundis
- 37 Pancreas
- 38 Peritoneum Omentum Mesentery Peritonitis
- 39 Dietetic diseases
Surft starvation scurvy dyspepsia

DECIMAL CLASIFICATION

- 616 895 **Manic depressiv insanity**
 General unsystematized delusions affectiv react on types
- 1 **Manic type** mania, expansiv psychosis, euphoria
- 12 Hypomania 14 Delirious mania
- 13 Acute mania 15 Chronic "
- 3 **Alternating, periodic or circular type**
 Circular insanity (folie circulaire) insanity of double form /
 cyclothymia variability of mood
- 4 **Depressiv type**
 Depressiv psychosis pathologic sadness and grief hypochondria
 melancholia See also 132 35
- 42 Simple retardation
- 43 Acute depression
- 5 **Stuporous type** Depressiv stupor
- 6 **Mixt type**
- 62 Manic stupor 65 Depressiv mania
- 63 Agitated depression 66 Depression with flight
 64 Unproductiv mania of ideas
- 67 Akinetie mania
- 7 **Involution melancholia**
 See also 132 35 Melancholia
- 897 **Paranoid reaction types**
 Partial systematized unopposed polymorphic diffused delusions,
 delusional insanity
- 2 **Paranoia**
- 22 Original 25 Latent
- 23 Acquired 26 Paranoia querulans Querulous
 24 Abortiv paranoia
- 3 **Paraphrenia**
- 32 Sistematic 34 Confabulatory
- 33 Expansiv 35 Fantastic
- 4 **Paranoid states** Paranoid constitution
 Narcissism
- 898 **Dementia**
 Chronic organic reaction types
- 1 **Acute or furious dementia** Primary dementia
- 12 **Alcoholic dementia**
 See also 616 861 Alcoholism
- 122 Alcoholic deterioration
- 123 Chronic alcoholism
- 124 Alcoholic pseudoparesis
- 125 " epilepsy
 See also 616 833 Epilepsy
- 126 Chronic hallucinosis
- 13 **Traumatic dementia**
- 132 **Traumatic constitution**
 Vasomotor neuroses, explos v diatheses
- 133 **Post-traumatic mental enfeeblement**

616 8983

Dementia precox and schizophrenic reaction types

Neuroop thel al dement a discordant insanity secondary o
terminal dementia. See also 616 895 Manic-depressiv insanity

- 22 Simple type Schizophrenia simplex
- 23 Katatonic type Katatonia Katatonic dementia
- 24 Hebephrenic type Hebephrenia Hebephrenic dementia
- 25 Paranoid type Paranoid dementia
See also 616 897 Paranoid reaction types
- 26 Mixt type
- 3 Senile dementia

- 31 Simple senile 36 Deprest and agitated type
- deterioration 37 Senile and cronic pseudo-
- 32 Presenile dementia paranoid type
- 33 Senile delirium 38 Arteriosclerotic type
- Delirious and con 382 Post paralytic dementia
- fused types 383 Post apoplectic "
- 34 Presbyophrenia 39 Other
- 35 Alzheimer s disease

9 General diseases

91 Infectious diseases

- 911 Eruptiv fevers
- 912 Small pox See also 614 471 and 614 521
- 913 Cowpox
- 914 Chickenpox See also 614 525
- 915 Measles See also 614 523
- 916 Rubella rubeo'a rotheln See also 614 524
- 917 Scarlet fever, scarlatina See also 614 522
- 92 Other fevers General works on fevers
See also 612 37 Animal heat
- 921 Dengue breakbone fever
- 922 Typhus See also 614 526
- 923 Plague
- 924 Relapsing fever, farin fever
- 925 Cerebrospinal fever
- 926 Simple continued fever
- 927 Enteric fever typhoid fever See also 614 511
- 928 Yellow fever See also 614 476 and 614 541

93 Diftberia Cholera Malarial fever

- 931 Diftberia See also 614 512
- 932 Asiatic cholera See also 614 475 and 614 514
- 933 Sporadic cholera
- 934 Epidemic diarrbea See also 614 517
- 935 Dysentery See also 614 516
- 936 Malarial fever See also 614 53

DECIMAL CLASSIFICATION

- 616 94 Septic diseases
- 941 Phagedena
- 942 Erysipelas
- 943 Pyemia
- 944 Septicemia
- 95 Venereal diseases Hydrophobia, etc.
- 951 Syphilis See also 614 547
- 952 Gonorrhea See also 614 548
- 953 Hydrophobia See also 614 477 and 614 563
- 954 Glanders See also 614 564
- 955 Horsepox
- 956 Splenic fever
- 96 Parasitic diseases See also 614 55 Public health
- 961 Animal parasites
 - See 591 69 Economic zoology 614 92 Parasites of animals
- 962 Entozoa
 - 963 Trematoda flukes
 - 964 Cestoda tapeworms
 - 965 Nematoda Round worms threadworms etc.
 - 966 Acanthocephala thornheaded worms
 - 967 Insecta parasitica Maggots
 - 968 Ectozoa
 - 1 Insecta parasitica mosquitoes gnats bedbugs fleas etc.
 - 5 Arachnida parasitica mites ticks
 - 8 Suctoria parasitica leeches
- 969 Vegetable parasites See 581 69 Economic botany
- 97 Effects of poisons See 615 9 Toxicology
- 98 Effects of injuries and climate
- 981 Presence of foreign bodies
- 982 Mechanical injuries
- 983 Excessive exertion and strain
- 984 Excessive venery
- 985 Privation
- 986 Exhaustion
- 987 Chemical agents
- 988 Climate
- 99 Other general diseases
- 991 Rheumatism, rheumatic fever Gout
- 992 Tumors
- 993 Nonmalignant cysts, wens
- 994 Malignant cancer
- 995 Tubercle
- 996 Scrofula Rickets
- 997 Myxedema Cretinism
- 998 Leprosy See also 614 546

617 Surgery

May be subdivided by o like 610 if wiaht

.1 Injuries

- 11 Burns and scalds
- 12 Lightning and electric shock
- 13 Contusions and abrasions
- 14 Wounds
 - 141 Incised
 - 142 Contused
 - 143 Lacerated
 - 144 Punctured
 - 145 Gunshot See 617 99 Military surgery
 - 146 With lodgment of foren bodies
 - 147 With complete separation of parts
 - 148 Poisons See 615 9 Toxicology
- 15 Fractures
- 16 Dislocations
- 17 Sprains
- 18 Asphyxia

.2 Results of injuries

Constitnt onal effects and other complications See also 616 94 Septic diseases

- 21 Shock
- 22 Inflammation
- 23 Abscess Sinus Fistula
- 24 Ulcers Sores
- 25 Mortification Gangrene
- 26 Traumatic fever
- 27 Tetanus See also 616 854

.3 Orthopedic surgery Deformities

For convenience the whole subject of deformities is clast here tho many of them hav no surgical treatment See also 573 8 Dwarfs and giants 573 9 Monstros ties 611 012 Teratology 613 01 Congenital defects

- 31 Incomplete development or growth
 - Divided like 611 Anatomy
- 32 Incomplete coalescence of parts harelip
- 33 Coalescence of parts
- 34 Extension of commissure (Apparent duplication)
- 35 Coalescence of fetuses Siamese twins
- 36 Supernumerary parts or organs extra fingers or toes
- 37 Disproportionate growth of parts
- 38 Transposition or displacement of parts
- 39 Congenital distortions, including talpes club foot

- 617 4 **Surgical operations**
 41 Circulatory system
 42 Respiratory system
 43 Digestiv system
 44 Glandular and lymphatic system
 46 Genito urinary system
 47 Motor and integumentary system
 48 Nervous system
 5 **Regional surgery**
 51 Hed Trephining
 52 Face Mouth See 617 6 Dent stry 617 7 Eye 617 8 Ear
 53 Neck Throat
 54 Chest
 55 Abdomen
 56 Pelvis
 57 Upper extremities Artificial arms hands etc
 58 Lower extremities Artificial legs feet etc
 6 **Dentistry Diseases of teeth**
 61 Diseases of dental pulp
 62 Diseases of dentin and cementum
 63 Diseases of dental periosteum
 64 Malposition and malformation of teeth
 65 Odontalgia toothake
 66 Extraction of teeth
 67 Stopping teeth
 68 Transplanting teeth
 69 Artificial teeth
 7 **Ophthalmic surgery Diseases of the eye**
 71 Conjunctiva Cornea Sclerotic Ophthalmia
 72 Iris Choroid Ciliary body
 73 Optic nerv Retina
 74 Lens and its capsule Vitreous humor Affections of
 the globe Cataract
 75 Disorders of vision
 Myopia shortsightedness astigmatism colorblindness daltonism See also
 phys ology 612 845
 76 Muscular apparatus Lacrimal apparatus
 St abismus squint
 77 Eyelids
 78 Orbit and neighboring parts
 79 Artificial eyes

617 8 Diseases of the ear

81 Affections of external ear

82 Auricle

83 Auditory canal

84 Affections of middle ear

85 Membrana tympani

86 Eustachian tubes

87 Mastoid cells

88 Affections of internal ear

89

9 Operativ surgery

See 615 781 Anesthetics

91 Armamentaria Surgical instruments

92 Orthopedic appliances Splints trusses etc

See 617.3 Orthopedic surgery

93 Surgical dressings

94 Amputation Resection

95 Plastic surgery

96

97

98

99 Military surgery

618 Diseases of women and children

1 Gynecology Diseases of women

11 Ovary

12 Fallopian tube

13 Periuterin diseases

14 Uterus and cervix

15 Vagina

16 Vulva

17 Functional and symptomatic disorders

Diseases of menstruation Leucorrhœa Sterility

18

19 Diseases of breast

618 2 Obstetrics

- .21 **Pregnancy** **Physiology**
- 22 **Diagnosis** **Signs of pregnancy**
- 23 **Duration**
- 24 **Hygiene** **Management**
- 25 **Multiple pregnancy** **twins etc**
- .3 **Pathology of pregnancy**
 - Diseases of pregnancy and their treatment*
 - 31 **Ectopic gestation** **Extra-uterin pregnancy**
 - 32 **Pathology of ovum**
 - 33 **Deth and retention of fetus**
 - 34 **Pathology of fetal appendages**
 - 35 **Decidua**
 - 36 **Placenta**
 - 37 **Amnion**
 - 38 **Umbilic cord**
 - 39 **Abortion** **Miscarriage** **Stillbirth** **Molar pregnancy**
 - See 173 4 Infant cide 340 6 Medical jurisprudence 343 Criminal law*
- .4 **Parturition** **Labor** **Physiology**
- 41 **Mechanism of labor**
- 42 **Presentations** **Positions**
- 43 **Clinic course and phenomena**
- 44 **Conduct of normal labor** **Management**
- 5 **Pathology of labor**
 - Abnormal labor from faults**
 - 51 **of powers** **Anomalies of expellent forces**
 - 52 **of passages** **Mechanical obstacles to expulsion of fetus**
 - 53 **of child** **Abnormalities of fetus** *See 617 3 Deformities*
 - Complications*
 - 54 **Hemorrhage**
 - 55 **Rupture or laceration of genital tract**
 - 56 **Retention of placenta**
 - 57 **Inversion of uterus**
 - 58 **Prolapsus funis**
 - 59 **Other complications**

- 618 6 **Puerperal state** **Physiology** - 125
- Management including care of child
- 7 **Pathology of puerperal state** **Puerperal diseases**
- 71 Diseases of lactation milk fever, mastitis etc
- 72 Puerperal fever See 614 545 Public health
- 73 Metritis Peritonitis See also 616 38 Cellulitis
- 74 Septicemia See also 616 944 Pyemia See also 616 943
- 75 Convulsions See 616 845 Eclampsia
- 76 Puerperal mania See also 132 1951 Manic insanity
- 77 Phlebitis Venous thrombosis Phlegmasta dolens
 See 616 14 Diseases of veins
- 78 Other puerperal affections
- 79 Sudden death after delivery
- 8 **Obstetric operations**
- 81 Application of lever and forceps
- 82 Version
- 83 Embryotomy
- 84 Dilatation of os and cervix
- 85 Symphyseotomy
- 86 Cæsarian section
- 87 Removal of placenta
- 88 Induction of labor Removal of ovum
- 89 Intra uterin injections Antiseptics in midwifery
- 9 Diseases at special developmental periods
- *92 Pediatrics Diseases of children
- 97 Geriatrics " " old age
- 619 **Comparativ medicin** **Veterinary**
- 1 Horses
- 2 Cattle
- .3 Sheep, goats
- 4 Swine
- 5 Poultry
- 6 Birds
- 7 Dogs
- .8 Cats
- 9 Other

618.2 Obstetrics

- .21 **Pregnancy** **Physiology**
- 22 **Diagnosis** **Signs of pregnancy**
- 23 **Duration**
- 24 **Hygiene** **Management**
- 25 **Multiple pregnancy** **twins etc**
- 3 **Pathology of pregnancy**
 - Diseases of pregnancy and their treatment*
 - 31 **Ectopic gestation** **Extra-uterin pregnancy**
 - 32 **Pathology of ovum**
 - 33 **Deth and retention of fetus**
 - 34 **Pathology of fetal appendages**
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 - 36 **Placenta**
 - 37 **Amnion**
 - 38 **Umbilic cord**
 - 39 **Abortion** **Miscarriage** **Stillbirth** **Molar pregnancy**
 - See 173 4 Infanticide 340 6 Medical jurisprudence 343 Criminal law*
- .4 **Parturition** **Labor** **Physiology**
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 - 42 **Presentations** **Positions**
 - 43 **Clinic course and phenomena**
 - 44 **Conduct of normal labor** **Management**
- .5 **Pathology of labor**
 - Abnormal labor from faults**
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 - 52 **of passages** **Mechanical obstacles to expulsion of fetus**
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 - Complications*
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 - 55 **Rupture or laceration of genital tract**
 - 56 **Retention of placenta**
 - 57 **Inversion of uterus**
 - 58 **Prolapsus funis**
 - 59 **Other complications**

620.112	Tests	Factors affecting strength
	Kinds of tests	Directions for making various tests, laboratory manuals
	See note to 620 11	
1	General influence of temperature, selection of test pieces etc	
2	Corrosion	Weathering
3	Elastic limit tests	plasticity, fatigue, deformation
	See also 620 11246	Repeated stress
4	Tension, compression torsion flexure shearing	
	Class here combined tests as well as general works covering these tests	
	If wisht, subdivide farther as follows	
41	Tensile tests	
42	Compression tests	
43	Torsion	"
44	Flexure (transverse) tests	
45	Shearing tests	
46	Repeated stress tests	
5	Impact	Repeated shock tests
	Crystallization and formation of cleavage planes	
6	Hardness tests	
7	Special tests	
	Varying for different materials	
8	Tests on special shapes and forms	
82	Plates and structural shapes	
	Bars rods angles, beams T, bulb I, and channel beams	
83	Columns built columns	Tubes pipes cylinders
84	Rollers	Spheres, solid or hollow
85	Springs	
86	Hooks	Chains
87	Rivets	Bolts
	Riveted joints of plates	Hoops
	Wire	Wire rope
	Other forms	Cables
	Hawseas	
9	Other tests	
.12	Tests of timber	See note to 620 11
.13	Stone	Cement
.132	Stone	
.135	Cement	
.136	Concrete	
.137	Reinforced concrete	
.139	Other artificial stone	
.14	Brick, tile, glass, etc.	
	See also 666 1	Manufacture of glass
.15	Masonry adhesives	691 6 Glass as a building material
	Cement, mortar, plaster of paris, etc	See also building materials
	plaster, cement	691 5 Lime,
.17	Iron and steel	
.18	Other metals	Use as general number for metals
.19	Other materials	
.195	Mineral asbestos, mineral wool	
.196	Asphalt	Tar
.197	Vegetable. paper, hemp, etc	
.198	Animal hair, hide, bone, etc	
.199		
.2	Compendis	Handbooks
.3	Dictionaries, cyclopedias	Kent Trautwine
.4	Essays	
.5	Periodicals	
.6	Societies	
.7	Study and teaching	Instruments
.8	Tables and calculations	
.9	History of engineering	

621 Mechanical engineering

May be subdivided like 620 0 and by form numbers

.I Steam engineering

Subdivide like 620 0 and 620 0 but use 621 101 as below. Other generalities of steam engineering are in 621 11 and 621 18

.101 Applied thermodynamics

Theory and use of steam in steam engine General energy considerations
Steam economy

1 General

Expansion entropy extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing etc For condensers, superheaters, etc see 621 197

11 Mechanism of steam engine Design of engine parts

.111 General

.112 Types of engines structural

Reciprocating engines in general Types specified below are all reciprocating except 1 Primitiv and 9 Other

1 Primitiv

21 Single acting

22 Double acting

3 According to transmission of motion

32 Direct connected

33 Indirect beam connected

4 According to position

42 Horizontal

44 Vertical

45 Oscillating

46 Inclined

5 According to terminal pressure

52 Condensing

In early period called low pressure*

53 Noncondensing

In early period called high pressure*

6 According to expansion

61 Single expansion

62 Compound

63 Double expansion cross compound

64 " " tandem "

65 " " angle "

66 Triple expansion

67 Quadruple expansion

9 Other types

95 Steam turbines

Better class 621 165

96 Rotary engines

Better class 621.166

12 Marine engines

For propulsion see 623 8 Naval architecture

121 General

See also 621 11 and 621 18

122 Types of marine engines

1 Primitiv

Inventions of Papin Perier Fulton, Stevens, etc

2 Beam and slide lever engines

4 Horizontal inclined, vertical engines

5 Oscillating

8 Launch engines

9 Other special engines

.123 Marine steam turbines

See also 621 165

- 621 13 Locomotives
- .131 Theory of the locomotive
- 1 Adhesion Tractive force Horsepower
- 2 Tests
- 3
- .132 Types
- Variations modifying tractive force and speed and affecting more than 1 class of mechanism For variations in steam apparatus (oil burning locomotives etc) see 621.133 and 621.134
- 1 Primitive forms
- 2
- 3 Types according to distribution of wheelbase and load
Express by Whyte nomenclature for wheel combinations
- 4
- 5 Types according to purpose
- 6 Freight or goods engines Hog engines
- 61 Yard switch or shunting engines
- 62 Passenger engines
- 63 Mountain "
- 64 Mining "
- 65 Other special locomotives
- 66 Peculiar types
Combined engine and coach wagon
- 67 Types in different countries
Subdivided like 940-999 e.g. English locomotives 621.132943
- .133 Locomotive boilers Production of steam
- Better class in 621.18423 as boilers of locomotive type serve many other purposes For boiler management see 621.194
- 1 Combustion Fuels Petroleum Fuel consumption
See also 621.18357
- 2 Grate and ashpit Firebox Stays
See also 621.1835
- 3 Shell and tubes
- 4 Smokebox and stack Spark arresters
See also 621.1838
- 5 Exhaust pipe
- 6 Dome
- 7 Miscellaneous fittings
Gage cocks safety valves, whistles pumps injectors etc.
- .134 Engine of the locomotive
- 1 Driving mechanism Cylinders pistons rods
- 2 Steam distribution Valves and valve gears
- 21 Special types of valves and valve gear
- 3
- 4 Compound principle
Distribution in compound locomotives
- 5 Lubrication of locomotive
- 6 Other parts of locomotive throttle, etc
- .135 Running gear
- .136 Tenders
- 1 Design weight brakes etc.
- 2 Appliances
- 3 Taking water without stopping track tanks water scoops
- .139 Miscellaneous parts
- Cowcatcher or pilot, headlight, bell, sandbox

- 621.184 Boilers For boiler plants see 621 19
- 1 General
 - 13 Boiler economy Tests Feedwater
 - 2 Types
 - 22 Marine
 - 23 Locomotive traction portable
 - 24 Stationary
 - 25 Firetube boilers (tubular)
 - 252 Internally fired
 - 253 Externally "
 - 26 Water tube boilers (tubulous)
 - 27 Flash generators Instantaneous vaporizing boilers
 - 5 Boiler construction Setting Parts
 - 52 Shell Heads Tubesheets Domes Drums
 - Riveted joints staying and bracing
 - 53 Tubes Ferules Rings
 - 54 Casing
 - 55 Inspection and cleaning parts man and hand holes cleanouts covers
 - 56 Setting and hanging
 - 57 Foundations masonry flues etc
 - 7 Boiler accessories
 - 72 Water gages floaters gage glasses warning whistles
 - 73 Pressure gages manometers safety valves
 - 79 Other air cocks and blowout valves zincs steam collectors
- .185 Steam transmission and distribution Piping
- 1 General laws of flow, condensation friction
 - 3 Connections, mains auxiliary piping
 - 4 Valves Stop safety reducing Pressure regulators
 - 5 Drains and traps Receivers and distributing valves
 - 6 Covering Insulators
 - Nonconductors for high low and medium temperatures
 - 7 Joints and cements Expansion joints
 - 8 Utilization of exhaust steam See also 697 5 Steam heating
- 19 Steam boiler and power plants Central stations
- See also building 697 5 Steam heating and Boiler, Boilers in Relative index
- 191 General
 - 192 Arrangement and housing of apparatus
 - Provision for enlargement
 - 193 Care and management of steam apparatus
 - 194 Boilers
 - 1 Firing
 - 2 Feeding
 - Put here general discussion of feeding and feedwater appliances
 - For separate description of appliances see 621 197
 - 3 Treatment of feed water purification softening
 - 4 Scale prevention Incrustation
 - 7 Inspection Tests Rating
 - 195 Engines oiling, packing, adjusting
 - 196 Duration Wear
 - 3 Corrosion
 - 197 Steam plant accessories Economic appurtenances
 - 2 Feedwater appliances
 - Tanks heaters economizers filters purifiers regulators
 - 3 Pumps Injectors Return traps
 - 4 Separators
 - 5 Superheaters
 - 6 Condensers and cooling towers
 - 62 Surface condensers
 - 63 Jet condensers
 - 64 Cooling towers
 - 67 Condenser accessories
 - 7 Instruments
 - Indicators tachometers gages dynamometers thermometers, pyrometers lubricators etc

621 2 Hydraulic engines or motors

Industrial use of water as mot v power including mach nes run by water under pressure produced by accumulators and also constructions and appliances for distribut ng and regulat ng supply of water to motors
For hydraul c engineering (dam breakwater etc) see 627 for pumps see 621 6 for reservoirs aqueducts etc see 628 1 for theory of mechanics of liquids see 532

21 Water wheels

Theory classification parts (e g paddles vanes buckets) water gates culverts

22 Overshot or bucket wheels Brest wheels

221 Overshot wheels of low velocity

222 Overshot wheels of high velocity

223 Brest wheels Fairbairn wheels

224 Sluice gate or Sagebien wheels

23 Undershot or impulse wheels and floating wheels

231 Ordinary undershot wheels

232 Wheels with curvd vanes or buckets Pelton wheel

233 Vertical impulse wheels

234 Current suspension wheels

235 Floating wheels

24 Turbines

See also 621 265 Steam turbines

241 General parts (e g distributors, buckets, guide vanes) regulators

242 Reaction or pressure turbines

243 Outward flow

Early forms Barker's mill

244 Inward flow

245 Downward flow

247 Impulse or Girard turbines

25 Water pressure engines Accumulators

252 Hydraulic pumps

253 Piping for high pressure

254 Accumulators

26 Hydraulic machinery and appliances

For theory see 532 81

262 Funicular engines Hydraulic tackle

263 Hoists Elevators Cranes

Class preferably in 621 86 12 purpose outw ighs mot v power

264 Special handling and lifting machinery for steel works, etc

266 Presses Forging and stamping machines

267 Accessories injection pumps

269 Mining tunneling and other hydraulic appliances

Hydraulic giant Brandt's hydraulic gun

27 Hydraulic rams

For theory see physics 532 83

272 Lifting rams Montgolfier ram Bolle ram etc

273 Pumping rams Leblanc ram

See also 621 64 Pumps

274 Compressing rams Sommelier ram

29 Flood gates Dams Mill sluices Hed and tail races

Adaptat on to hydraul c motors. For methods and princ ples of construction see 627 8 Hydraulic engineering

621.3 Electric engineering

001 Statistics, 002 Quantities and cost, 003 Contracts and specifications,
 004 Designs and drawings, 005 Executive 006 Working and maintenance,
 007 Laws and regulations 008 Patents 009 Reports
 May also be subdivided for form with 0 like 620 1-9

SUMMARY**621.31-7 Heavy current engineering**

- .31 Generation of electricity
 - .311 General
 - .312 Central stations
 - .313 Dynamoelectric machinery
 - .314 Stationary induction apparatus
 - .315 Electrostatic apparatus
 - .316 Accessories and parts
 - .317 Control and central station wiring
 - .319 Transmission
- .32 Electric lighting
- .33 Electric traction
- .35 Voltaic cells and batteries
- .36
- .37 Electric measurements and testing
- .38 Weak current engineering
 - .382 Telegrafy
 - .384 Wireless communication
 - .385 Telephony .388 Transmiss ion of images
 - .39 Other applications of electricity

621.31-.37 Heavy current engineering

- .31 Generation of electricity Dynamoelectric machinery
- Transformers Transmission

- .311 General

- .312 Central stations metropolitan, rural

Divided by 001-009 like 621.3 with the following additions to 006

- 006 Working and maintenance
 - 4 Operation and running
 - 5 Regulation and control
 - 7 Repairs and renewal

Administrative point of view a specific repair belongs with
 the part repaired

- 8 Testing

- 13 General central stations

Combined power traction, light, etc. stations

- 132 Steam driven

- 133 Gas "

- 134 Hydraulic

- 135 Composit

- 2 Stations for lighting only

Divided by source of power like 621.31213

- 3 Stations for traction only

Divided like 621.31213

- 5 Storage battery pressure regulating equipment

- 6 Substations

- 63 Transformer substations

- 64 Converter "

- 65 Accumulator "

621.313	Dynamoelectric machinery
1	General; construction, installation
2	Direct or continuous current machinery
21	Theory
22	General types
23	Continuous current generators
	2 Series wound 3 Shunt wound 4 Compound wound
24	Continuous current motors
	Subdivided like 621.323.23 above
245	Constant speed motors
246	Multispeed motors
247	Adjustable speed motors
248	Varying " " (railway motors)
25	Continuous current converters
26	Dynamotors and motordynamos
27	Compensators or balancers
28	Continuous current boosters
29	Other
291	Acyclic or homopolar machines
3	Alternating current machinery
32	General types of alternating current machinery
321	Single phase machinery
322	" " "
323	3 " "
325	Other polyphase machinery
4	Synchronous machinery
41	Theory
42	General types
43	Alternating current generators
44	Synchronous motors
5	Alternating current converters
51	Theory
52	General types Description
53	Synchronous converters
54	Phase converters
55	Frequency converters
56	Double current generators
57	Motor converters
6	Asynchronous machines
61	Theory
62	
63	Induction generators
64	" motors
65	Series alternating-current motors
66	Repulsion motors
67	Frequency converters
68	Phase converters
7	Rectifying apparatus
72	Mechanical rectifiers
73	Arc "
74	Electrolytic "

- 621.314 Stationary induction apparatus
 - 1 Theory
 - 2 General types and description
 - 3 Transformers
 - 3¹
 - 3² Constant current transformers
 - 33 Constant potential transformers
 - 34 Phase changing transformers
 - 38 Meter transformers
 - 4 Auto transformers
 - 5 Potential regulators
 - 5¹ Compensator potential regulators
 - 5² Induction " "
 - 53 Magneto " "
 - 6 Reactors or choke coils
 - 7 Induction coils
- 315 Electrostatic apparatus condensers
- 316 Details of electric machinery Parts
 - Armatures field cores, etc.
- .317 Central station wiring Control devices and switchboards
 - For meters and measuring instruments see 621.37
 - 1 General
 - 2 Panels
 - 2¹ Generator panels
 - 2² Motor "
 - 2³ Feeder "
 - 2⁴ Transformer "
 - 2⁵ Converter "
 - 2⁶ Lighting "
 - 2⁷ Accumulator "
 - 3 Switches
 - 3¹ General
 - 3² Knife switches
 - 3³ Dial "
 - 3⁴ Plug "
 - 3⁵ Oil "
 - 3⁶ Circuit breakers
 - 4 Rheostats and control devices
 - 5 Signal devices
 - 6
 - 7 Barriers and compartments
 - 8 Station protective devices (fuses, lightning arresters, etc.)
- .318 Manufacturing processes
 - Processes peculiar to electric machinery and apparatus e.g. insulating varnishing baking armature stamps and dies

621 319 Transmission of electric energy

Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject e.g. traction lines 621 333

1 General

12 Systems

122 Direct or continuous current systems

Including 1 wire systems

123 3 wire (or Edison) and other

129 Other direct current systems

13 Alternating current systems

131 Single phase systems

132 2 phase (or quarter phase) systems

3 3 wire system

4 4 " "

133 3 phase systems

2 Delta or mesh connections

3 Star or Y connections

139 Other polyphase systems

15 Composite systems

Direct and alternating current combined

2 Lines and conductors

For local wiring see specific application e.g. electric light wiring 621 328

21 General

Interaction of parallel lines, heat losses. For traction lines see 621 332 for interior wiring for electric light see 621 328 for telegraph see 621 382 for telephones see 621 385 7

22 Overhead or aerial lines

222 Systems

223 Poles foundations guys etc

224 Cross arms Pins

225 Towers

23 Underground lines

232 Systems

233 Conduits

234 Manholes

3 Cables and conductors Insulating materials

32 Uninsulated conductors Bare wire

33 Insulated " Wire and cable

34 Cables

37 Insulating materials

Leakage Influence of chemical composition

4 Insulators

8 Protective devices

82 Line lightning arresters

For protection of central stations see 621 3178

- 621.334 Rolling stock
 For nonelectric rolling stock see 636 for administration 699 for construction
- 2 Locomotives
 3 Motor tramcars
 4 Accessor es and parts Control systems
 Motor controller current collecting devices etc Multiple unit control
- 5 Locomotive and car wiring
 7 Running gear and other nonelectric details
- .35 Chemic electricity Voltaic cells and generators
 Primary and secondary
- .351 General
 E m f counter e m f polarization weight capacity efficiency life, crumbling deterioration and detrimental influences residues
- .352 Parts and accessories of cells and accumulators
 1 Containers jars troughs vats etc
 2 Electrodes and their accessories positiv and negativ plates or elements
 Grids supporting frames insulating rods etc
 3 Diaphragms and partitions
 4 Electrolytes Depolarizers Packing
 5 Circulators Conduits and piping
 6 Connections Terminals Binding posts
 7 Regulating apparatus
 8
 9 Other apparatus
- 353 Primary cells
 See also 537.5 Voltaic electricity 541.37 Electrochemistry
- 1 General
 3 Single fluid
 4 Double " Heavy current cells
 5 Open circuit or nondepolarized
 6 Closed circuit or depolarized
 7 Accessories and parts
 8 Classification according to use or operating methods
- 354 Accumulators or storage batteries
 Secondary cells and batteries
- 1 General
 18 Care and handling of accumulators
 7 Accessories and parts
- 355 Led accumulators
 1 General
 18 Care and handling
 2 Naturally formed Planté type
 3 Artificially formed Faure type
 4 Combined Planté Faure types
 5 Other led accumulators
 53 Complex oxid types
 55 Led element accumulators
 56 Copper led "
 57 Zinc " "
 58 Cadmium " "
- 356 Alkaline accumulators
 357 Other types of accumulators
 Thallium gas etc
- 358 Other classifications of accumulators
 According to use or operation
- .359 Other topics pertaining to chemic generation of electricity
- .36

- 621 37 Electric measurements, meters and testing
- 371 General
 Tariffs may be class here tho better put in 654
- 372 Standards Calibration of instruments
- 373 Meters General types
 Recording meters See also special meters 641 374
 Prepayment meters See also special meters e.g. 641 3745 Watt hour
- 374 Special meters and measurements
- 2 Resistance meters Inductance, capacity
 Wheatstone bridges ohmmeters resistance boxes
- 3 Potential meters voltage
 Voltmeters electrometers standard cells
- 4 Intensity meters current
 Galvanometers ammeters coulometers Ampère hour meters
- 5 Quantity or work meters Watt hour meters
- 6 Power meters Watt meters
- 7 Frequency meters Oscillographs
- 9 Other meters and measurements
- 91 Phase meters Power factor meters Synchronizers
- 379 Other electric measuring instruments
 For other than electric measurements e.g. electric thermometers
 Weak current engineering
- 38 Electric communication telegraphy telephony wireless
 Libraries have too much material class in 654 to make it practicable to abolish that number for construction and instruments but for electric engineers and new libraries preferring the detailed technical classification is developed here
 For overhead or underground lines see 641 389
- 381 General
- 382 Telegraphy Systems
 When systems and instruments conflict classify according to systems
 For business administration see 654 for wireless see 641 384
- 15 Codes
- 152 Morse
- 153 Continental
- 154 Phillips (press code)
- 2 A B C, dial, needle telegraph, etc
- 21 Early experimental forms
- 22 A B C
- 23 Dial
- 24 Needle
- 25 Pointer
- 29 Other
- 3 Hand operated code telegraphy
- 31 Simplex
- 311 Open circuit
- 312 Closed circuit
- 32 Duplex
- 321 Differential duplex systems
- 322 Stearns duplex
- 323 Polar duplex
- 325 Bridge duplex systems

621 38234	Quadruplex
35	Multiplex
36	Synchronous multiplex Delany
37	Harmonic " Gray
4	Automatic code telegraphy High speed systems
41	Electrochemic automatic Bain, Morse
44	Ink recording or embossing
45	Wheatstone
46	Pollak Virag
47	Telepost (Delany)
5	Printing telegraph
51	Tape printing stock tickers
53	Other tape printing Hughes
55	Page printing Buckingham, Murray, Baudot
57	Multiple page printing Rowland
6	Writing telegraphy
	Transmitting and recording characters while being written Gray & telautograf
7	Facsimile telegraphy
	Sometimes called fototelegraphy
8	Submarine cable telegraphy
9	Other wire systems
94	Induction telegraphy from moving trains etc
95	Combined telegraphy and telephony Phantom circuits
383	Telegraph instruments
1	Transmitting keys, senders etc
2	Intermediate and accessory relays, repeaters, switches
21	Relays
22	Differential relays
23	Polarized "
24	Repeaters for simplex Mullen Ghegan Toye etc
25	" " duplex or quadruplex
26	Half repeaters
27	Switches and distributing apparatus
28	Protective apparatus
29	Miscellaneous telegraph accessories
3	Receiving instruments
	Sounders recorders etc Subdivided like 621 3824 8

384 Wireless electric communication telegraphy, telephony Radio

Following subdivisions by 0003 may be used thruout 621 384 as needed
621 384 may also be divided by or like 620 1 For full list of form divisions
see Table 2 after Relative index

00031	Statistics
32	Quantities Costs
33	Contracts Specifications
34	Designs Drawings
35	Executive Administrative
36	Working Maintenance
363	Personnel
	Divided like 331
364	Operation Running
365	Regulation Control
367	Repairs Renewals
	Administrative point of view a specific repair belongs with part repaired
368	Testing
37	Laws Regulations
38	Patents
39	Reports

11	Radio waves		
111	Characteristics		
112	Propagation		
113	Polarization		
114	Radiation		
115	Transmission phenomena		
1	Fading		
2	Daily and seasonal variations		
3	Directional variations		
4	Ionization Heaviside layer		
5	Meteorologic influences		
	Geophysical and cosmic effects		
51	Atmospheric currents Winds		
52	Temperature		
521	Arctic and antarctic radio		
522	Radio in temperate regions		
523	Tropic radio		
53	Elevation		
54	Barometric pressure		
55	Storms Aurora borealis, etc		
56	Eclipses		
57	Moisture Precipitation		
58	Dryness		
59	Other		
6	Reflection Refraction Diffraction		
7	Transmission formulas Range		
8	Wave front angle		
9	Other transmission phenomena		
116	Directional properties		
117	Waves on wires		
12	Radio circuits		
121	Simple radio circuits		
	Theory and effects		
122	Coupled circuits		
123	Damping Decrement		
124	Resistance		
125	Reactance		
	1 Inductance 2 Capacity		
126	Harmonics		
127	Beats		
128	Modulation		
1	Distortion		
129	Other topics		
1	Oscillating circuits		
2	Rectification		
13	Instruments Apparatus Equipment		
131	Generating, sending, transmitting apparatus		
	See also 621.3841:326 Tube generators		
1	Simple oscillators		
2	Spark gaps		
3	Arco Arc converters Arc generators		
4	High frequency alternators		
5	High voltage generators		
6	Transformers		
7	Automatic transmitters		
8	Other types of generators and transmitters		
	Practical cable transmitters, etc		
9	Auxiliary equipment		
	91 Frequency changers 92 Protective devices		

DECIMAL CLASIFICATION

621.384132

Vacuum tubes Electron tubes

- 1 Construction Evacuation
- 12 2-electrode tubes
- 123 Regulator "
- 13 3-electrode "
- 14 Vacuum tubes with 4 or more electrodes
- 15 Alternating current tubes
- 17 Impedance
- 18 Electron emission Ionization
- 2 Apparatus
 - Use in wire systems, etc
- 3 Detectors Rectifiers
 - See also 621.3841362 Detectors in general
- 31 Detector action
 - Divided like 621.38413662
- 32 Plate or anode circuit rectification
- 33 Grate or cathode " "
- 4 Amplifiers
 - See also 621.3841363 Amplifiers in general
- 5 Electron tube receiving sets
 - See also 621.3841366 Receiving sets in general
- 6 Electron tube generators
 - See also 621.3841311 Generating apparatus in general
- 7 Modulators
- 8 Electron tube radiotelephone sets
- 9 Other electron tube apparatus

133

Parts of circuits Instruments

- 1 Condensers
- 1 Inductors
 - Inductance coils
 - Couplers Oscillation transformers
- 3 Resistors
- 4 Meters
 - Wavemeters
 - Frequency meters
 - Decremeters
- 5 Modulating devices Modulators
- 8 Auxiliary equipment, parts and details
- 81 Filament and plate current supply
- 82 Filters Filter circuits
- 83 Grounds
- 84 Cathode ray oscillograf
- 85 Switches and switching devices
- 86 Insulating and protective devices
- 87 Radio conductors Wiring devices
- 88 Structural details
- 89 Other devices and auxiliary equipment
- 9 Other instruments

135

Antennas, aernals and their substitutes

- 1 General questions
 - Functions antenna constants
- 12 Proper frequency
- 13 Capacity
- 14 Inductance Self induction
- 15 Resistance
- 2 Condenser or ordinary elevated antennas Open antennas
 - With ground
 - " counterpoise, without ground
 - Inverted L type
 - T type
 - Umbrella type
- 3 Ground and underground antennas

621.3843354

Cord frame or loop antennas Closed or skeleton antennas

Directional antennas

Direction finders for reception

Direct v antennas for transmission

Wave antennas Beverage antenna

Beam system antennas

Adcock antennas

Multiple-tuned antennas

Artificial antennas

Use of trees balloons kites etc. Improvised antennas

Antenna parts and auxiliaries Antenna kits

Structural members masts towers poles etc

Ground connections and auxiliaries ground screens, etc

Counterpoises

Antenna hardware and fittings brackets spreaders etc

Antenna conductors, antenna wires

Insulating devices

Antenna instruments

Leads-in feeders switches etc

Protective devices

Special antennas

For vehicles, ships, submarines, airplanes etc

136

Receiving apparatus and instruments

General questions

Sensitivity intensity and clearness of reception

Perturbations

Selectivity

Fidelity

Output

Power supply

Direct current

Alternating current

Detectors and rectifiers

See also 621.3841323 Tube or valv detectors

General quest ons detector action etc

Crystal detectors

Electrolytic detectors

Nonrectifying *

Coherers

Thermal detectors

Magnetic *

Amplifiers

See also 621.3841324 Tube or valv amplifiers

Telephone receivers Acoustic receivers

Tuned receivers

Loud speakers Loud speaking apparatus

Hed sets Hed telephone receivers

Audibility meters

Recording devices Automatic recorders

Optic receivers

Receiving sets

See also 621.3841325 Tube receiving sets

According to principle or type of circuit

Regenerat v

Superregenerativ

Autodyne

Heterodyne

Superheterodyne

Autoheterodyne Endodyne

Supersonic

Reflex

Neutrodyne

Solodyne

Oscillating crystal or piezoelectric receivers

Other

2

621

622

623

2

3

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625

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629

DECIMAL CLASIFICATION

621.384192	Commercial and industrial services		
1	General traffic		
11	Codes and cyphers		
115	Speed of code reception		
12	Station call letters		
13	Abbreviations		
14	Alfabet		
	Morse continental, international		
15	Relations with land lines		
16	" " cables		
17	Rates		
2	Pres servis		
6	Industrial services		
	62-699 divided like 620-699 e.g. 621 384192622		
	Radio applied to mining For industries not included in 620-699 use 621 38419261 divided like main classification		
193	Broadcasting		
1	General questions		
	Standard waves etc		
8	Types of material broadcast		
	Divided like main classification		
194	Amateur wireless activities		
195	War and police services		
	2 Military	3 Naval	4 Police
196	Distant control by radio		
197	Interplanetary communication		
198	Radio toys		
199	Other applications		
2	Wireless telegraphy		
21	General questions		
25	Systems		
	Divided like 621 38415		
3	Instruments		
	Divided like 621 38413		
4	Applications	Adaptations	Specific installations
	Divided like 621 38419		
5	Wireless telephony		
51	General questions		
55	Systems		
	Divided like 621 38415		
6	Instruments	Apparatus	Equipment
	Divided like 621 38413		
7	Applications	Adaptations	Specific installations
	Divided like 621 38419		

- 621 385 **Telephony Systems**
 See also 621 3845 Wireless telephony
- 1 **General**
- 2 **Party line**
 When 2 and 3 or 2 and 4 conflict 2 or 4 prevails
- 22 Series
- 23 Bridging
- 24 Selectiv
- 3 **Intercommunicating systems**
 Without central switchboard
- 32 Common return systems selectiv at each station
- 34 Radial common return systems selectiv at one station only
- 36 2 wire systems separate returns
- 4 **Central switchboard systems**
 Manual for automatic see 621 3857
- 42 Local battery or magneto systems
- 46 Common battery or central energy systems
- 5 Multiple switchboard systems
- 6 Trunking Transfer systems
- 61 Trunking
- 63 Transfer systems
- 7 **Semiautomatic and automatic systems**
- 72 Semiautomatic
- 75 Automatic
- 76 Strowger system (Automatic Electric Co)
- 3 **Private exchanges**
- 386 **Telephone instruments**
 Terminal subscriber's instruments
- 2 Transmitters
- 3 Receivers
- 4 Induction coils
- 5 Condensers
- 6 Hook or other switches
- 7 Call receiving apparatus
- 8 Call sending "
- 9 Miscellaneous accessories
- 92 Coin collecting devices
- 94 Protective devices
- 96 Current supply (local batteries)
- 387 **Central switchboards and other station equipment**
- 1 **General**
- 2 **Switchboards, manual**
- 22 Local battery or magneto
- 26 Common battery
- 3 Multiple switchboards
- 35 Divided multiple
- 4 Trunks Transfer boards
- 41 Trunks and trunking
- 43 A boards
- 45 B boards
- 47 Multiple plug transfer
- 5 **Switchboard parts and accessories**

- 621 3876 Power plant equipment and accessories
- 62 Accumulators
- 63 Charging generators
- 64 Ringing
- 7 Automatic and semiautomatic switchboards
Including accessories Subdivided like 621 3857
- 8 Telephone transmission
For transmission common to other branches of electricity see 621 3
Put here only that peculiar to telephony
- 81 General questions
- 82 Long distance
- 83 Transposition
- 84 Telephone cable construction
- 85 Loading
- 86 Pupin coils
- 9 Other central station accessories
- 92 Distributing frames and racks main
- 93 " " " " intermediate or secondary
- 94 Protective devices
See also 621 3178 and 621 3198
- 96 Meters and counters
See also 621 3286 Electric light meters
- 388 Transmission of images Television
- | | | |
|---------------------|-----------------|----------------|
| 1 General questions | 5 Systems | 6 Stations |
| 3 Apparatus | 52 Wire systems | 9 Applications |
- Divided like 621 38414 53 Wireless systems
- 389 Other electric communication
- 39 Other applications of electricity
Subdivided like 600 e.g. electricity applied to mining 621.3942 applied to medicine 621.3915 Thus space is provided for specialists who prefer to mass all their material under 621 3. Libraries should classify rather by purpose of the application e.g. books on electric heating will be more useful in a general library under 697 7 with the question of heating than in 621 3997 with a general assortment of unrelated applications. References here show a library's resources on special applications
- 4 Heat, air and gas engines, etc.
- 41 Hot air engines
- 42 Compressed or rarefied air or gas engines
- 43 Internal combustion engines
- 431 General theory of internal combustion engines
- 432 Cycles and systems of operation
- | | |
|------------------------------|------------|
| 1 4-cycle systems | Otto cycle |
| 2 2-cycle systems | |
| 3 Other and modified systems | |
- 433 Gas turbines
- 434 Internal combustion engines classed by fuels
- | | |
|------------------------------|-----------------------------|
| 1 Engines for gaseous fuels | |
| 11 Engines for natural gas | |
| 12 " " illuminating gas | |
| 13 " " blast furnace gas | |
| 14 " " producer gas | For gas producers see 665 8 |
| 15 Engines for acetylene gas | |
| 2 Engines for liquid fuels | |
| 21 Engines for gasoline | |
| 22 " " kerosene | |
| 23 " " other petroleum oils | |
| 24 " " alcohol | |
| 3 Engines for solid fuels | |

- 621 436 Special engines or motors
 Those not limited to a single system or fuel e.g. description or discussion of Diesel motor Arrange alphabetically by name of machine
- 437 Parts and accessories of internal combustion engines
- 438 Special applications
- 3 Selfpropelled machinery
 Engines for farm machinery fire engines, roadrollers etc See also special machines
- 4 Selfpropelled vehicles
 Class here only adaptation and application of internal combustion engines to motor vehicles See also 629 25 Motor vehicle in engineering
- 5 Motors for small boats
- 6 " " large vessels
- 7 Airship motors
 See also 629 13435 in Aeronautics
- 44 Binary vapor engines
- 45 Windmills
- 46 Animal motors Treadmills
- 47 Solar engines
- 49 Power plants and central stations
- 5 Pneumatic machinery Mechanical refrigeration
- 51 Air compressors
- 515 Dry air compressors
- 517 Wet " "
- 52
- 53 Compressed air transmission and distribution
- 532 Details of transmission Piping mains gages etc Designs of transmission
- 54 Applications for compressed air
 For pneumatic hoists etc see 621 86
- 541 Compressed air motors
- 542 Pneumatic tools drills, hammers, etc
 See also 621 9 Machine tools
- 543
- 544 Special applications in railway service
- 545 Compressed air locomotives
- 546 Pumping by compressed air
- 549 Other applications
 Pneumatic cleaning sandblasts tubes
- 55 Rarefied air and vacuum appliances
 Vacuum cleaners general discussion and description See also domestic economy 648 52 Methods of sweeping and dusting
- 56 Refrigeration
 For cold storage see 664 8
- 564 Refrigerating fluids
- 565 Refrigerating systems and plants
- 1 Brine system
- 2 Direct expansion system
- 566 Design Calculation of piping, refrigerating surface, etc.

- 621 57 Refrigerating machines
 - 572 Ammonia compression machines
 - 573 Ammonia absorption "
 - 574 Carbonic acid machines
 - 575 Air machines vacuum machines etc
 - 579 Other
- 58 Icemaking
 - 581 Can system
 - .582 Plate system
- .6 Blowing and pumping engines
 - 61 Piston blowers Blast furnace blowing engines, etc
 - 62 Rotary blowers
 - 63 Centrifugal blowers
 - Including fans exhaust and plenum
 - 64 Power pumps and pumping engines
 - Regardless of motive power
 - 641 General theory Design and construction
 - 642 Tests of pumps and pumping engines
 - 65 Direct acting pumps
 - 653 Piston pumps
 - .654 Plunger "
 - 66 Rotary pumps
 - 67 Centrifugal pumps
 - 68 Fire engines
 - 69 Other blowing and pumping device
 - Steam jets ejectors etc.

521.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses offices etc.) with reference to sequence of processes economy of power and handling also equipment and internal arrangement of each shop. See also

651 Office methods and equipment

657 Accounting costkeeping estimates

658 Business methods

659 Advertising etc

670 Manufacturers articles and methods and machines for making them

725.4 Architecture of factories

In 621.7 is considered the disposition of the material for which the architect constructs the shell the assembling into a unit of elements essential to a great factory. A works manager may wish to keep *all* his notes on his own plant here including machines and processes for his special product but a general library should class manufactured articles with the special means and methods of producing them under the number for the article e.g. a library would class material on spindles and looms in 677 but the manager of a woolen mill might prefer to class them in 691.7983 as an integral part of his plant the classification under the regular number will usually prove more satisfactory in all cases

.701 Location

With reference to supply of raw material market for finished product shipping facilities relative cost of freight on material or product e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in location of an automobile factory

.704 Organization and administration

Managers and engineers professional staff artisans and laborers regarded as machine accessories hours and shifts considered solely with reference to effect on output. For wages and other economic aspects see 331 Capital labor and wages for factory legislation (protection and welfare of employees) see 338.9 For organization of clerical force see 651

705 Mechanics and laborers

.71 Drafting room

711 General

712 Arrangement

713 Equipment

714 Materials and supplies

715 Methods and processes

719 Other

.72 Woodworking shop Pattern shop

May be subdivided like 621.71

.73 Forge shop

May be subdivided like 621.71

.74 Foundry

May be subdivided like 621.71

75 Machine shop

May be subdivided like 621.71

76 Blast furnace

May be subdivided like 621.71

.77 Rolling and drawing mills

May be subdivided like 621.71

.78

- 521.79 Other shops and departments
- 792 Boiler and sheet metal shops
Stamping and punching May be subdivided like 621.71
- 794 Special process shops
Galvanizing plating etc May be subdivided like 621.71
- 795 Finishing shop
Painting glazing grinding buffing testing May be subdivided like 621.71
- 796 Storehouses
- 2 Materials and supplies
- 4 Explosives
- 6 Products Shipping department
- 798 Department turning out main product
Processes and machines Varying for different kinds of factories and provided only for factory use see note to 621.7 Libraries should leave vacant May be subdivided like 621.71
- 799 Other minor shops and departments
- .8 Principles of mechanism Power transmission
- Hoisting and conveying machinery
- 81 General Principles of mechanism Machine design
- 82 Journals shafting, etc
- 821 Journals
- 822 Bearings ball, roller, etc Hangers Bearing materials
- 823 Shafting
- 8235 Flexible shafting
- 825 Couplings and clutches Universal joints
Friction clutches
- 826 Shaft brakes
- 83 Toothed gears and cams
- 831 General theory forms of teeth tooth curves
- 832 Efficiency of gears Tests Friction of gears
- 833 Design of gears
- 1 Spur gears
- 2 Bevel and skew bevel gears
- 3 Worm and spiral gears
Screws for transmission by flexible connections
- 834 Construction gear cutting and casting
- 835 Chain gearing
- 837 Ratchet gearing pawls dogs
- 838 Cams
- 84 Valve motions and gears Pistons
General trade catalogs for special valves see subject
- 846 Valves and cocks
- 85 Machinery and mill gearing
Class here transmission by flexible connections
- 852 Belt connection
- 853 Hemp rope transmission
- 854 Wire rope
- 856 Pulleys Sheaves
- 858 Friction gearing

- 621 86 Hoisting and conveying machinery and apparatus
 For dredges see hydraulic engineering 627 7 Dredging dredging machinery
 See also 621.26 Hydraulic machinery 621 18378 Fuel and ash conveyers
- 861
- 862 Hoists blocks and tackle
- 863 Mechanical tackle Chain blocks
- 864 Winches Capstans Windlasses
- 865 Power shovels
- 867 Conveyers Telferage
- 2 Pipes Piping
- 4 Belt or bucket conveyers
- 5 Belt moving sidewalks
- 6 Bucket escalators moving stairs
- 9 Other conveyers cash carriers etc.
- .868 Telfers
- 4 Selfpropelling
- 869 Other jacks etc.
- 87 Cranes and elevators
- 871
- .872 Derricks
- .873 Revolving cranes
 621 873 5 may be subdivided like 621 8771-5 by kind of power if
 wisht e.g. 3 Steam 4 Hydraulic 5 Electric
- .874 Traveling cranes
- 875 Locomotive cranes .
- 876
- .877 Elevators
- 1 Handpower
- 2 Belt driven
- 3 Steam gasoline
- 4 Hydraulic
- 5 Electric
- 6
- 7 For special purposes
- 71 Passenger elevators
- 72 Freight "
- For mines see 622 87-68
- 73
- 74 Dum waiters Book lifts
 Lifts for small objects
- 8 Apparatus
- 81 Car and guides
- 82 Power transmitting devices
- 83 Counterbalancing weights and guides
- 84 Control devices
- 85 Safety "
- 86 Accessories

- 621 88 Fastenings
- 882 Screws and bolts Systems of screw threads
 For screws for transmitting motion see 621 8333
- 883 Keys and cotters
- 884 Rivets Design of riveted joints
- 89 Friction Lubrication Lubricants
- .9 Machine tools
 Manipulation Discussion and catalogs of different kinds and makes of
 metalworking tools For wood
 working tools see 674 Wood manufactures also 684 Cabinet making 694
 Carpentry 736 Wood carving
- 91 Planing and milling machines
- 912 Metal planers, shapers and slotters
- 92 Grinding and filing Abrasives Crushers
- 922 Cylinder and surface grinding machines
 Lapping machines
- 923 Emery wheels
- 924 Filing machines
- 93 Cutting and sawing
- 931
- 932 Metal sawing and cutting machinery
- 94 Turning
- 941
- 942 Metal turning lathes
- 943
- 944 Pipe threading machines
- 945 Boring mills
- 95 Perforating machinery
- .951
- .952 Drilling machinery Drills
- .953
- 954 Reamers
- 955 Tapping machines
- .96 Punching and shearing machinery
- .97 Hammers Riveting tools
- .98 Bending, straightening and shaping
- 981
- 982 Bending machinery
- 983 Straightening machinery
- 984 Flanging and die press machinery
- .99 Other

622 Mining engineering. See also 338 2 Mining products 332.418 Com- age metals

May be subdivided like 620 and 620 0 e g Societies, 622 06 Reports 622 009

1 Exploration and Prospecting

- 11 Theory Applied Geology etc
- 12 Prospecting Practical Methods,
Including Drilling Rods
- 13 Mineral Surveys
- 14 Mine Surveying
- 15 Magnetic Surveys
- 16 Theory of Faults See 551 87 and 553 10

17

18

- 19 Mining Prospectuses See 552-

2 Practical Mining

- 21 Excavation
- 22 Quarrying
- 23 Drilling and Blasting,
- 24 Deep Boring
- 25 Shaft Sinking
- 26 Tunneling and Drifting
- 27 Stoping
- 28 Timbering Masonry lining See also 622 56-

3 Working of Mines Exploitation.

- 31 Open Workings
- 32 Hydraulic Mining and Sluicing
- 33 Mining coal and other organic ores
Divided like 553 2 e g 622 335 Anthracite coal mining 622 338
Petroleum extraction
- 34 Metal mining
- 341 Iron
- 342 Gold and silver
- 1 Gold 2 Silver
- 343 349 divided like 553 43-49 e g 622 343 Copper mining
- 35 Working thick deposits Building stones
Divided like 553 5 e g 622 352 Granite quarrying See also 622 22
Quarrying in general
- 36 Mining salt and earthy economic minerals
Divided like 553 6 e g 622 363 Salt mining
- 37 Extracting minerals from mineral waters
Divided like 553 7 e g 622 374 Sulfuric
- 38 Mining gems and ornamental stones
- 39 " other economic minerals

DECIMAL CLASSIFICATION

- 622.4 Ventilation and lighting of mines
 - 41 Theory Gases met with etc
 - 42 Natural ventilation
 - 43 Furnaces Steam jets etc
 - 44 Fans See 621 62
 - 45 Airways Stoppings Regulators
 - 46 Mesurement of ventilation
 - 47 Lighting Safety lamps etc
- .5 Drainage
 - 51 Theory of infiltration of water
 - 52 Natural drainage
 - 53 Cornish pumps See 621 6
 - 54 Steam pumps See 621 64
 - 55 Hoisting of water
 - 56 Dams and watertight linings See also 622 28 Timbering
 - 57 Acid waters
- 6 Extraction Hoisting and transportation
 - 61 Handling mineral in working place
 - 62 Underground roads
 - 63 Mine cars Trams etc
 - 64 Gravity roads and planes
 - 65 Tramming and animal haulage See 625 7
 - 66 Mechanical haulage
 - 67 Hoisting engines Drums Ropes Whirns
 - 68 Cages Skips Buckets
 - 69 Surface transportation
 - Including mineral roads wire ropeways transshipment loading and unloading etc
- 7 Mechanical preparation Ore dressing
 - 71 Theory Preliminary operations
 - 72 Hand dressing
 - 73 Crushing Stamping engine
 - 74 Screening
 - 75 Jigging Ore concentrators
 - 76 Slime treatment
 - 77 Magnetic separation
 - 78 Coal washing
 - 79 Dressing works
- .8 Dangers and accidents See also 623 6 Hygiene 337 82 Laboring classes
 - 81 Explosions of firedamp
 - 82 Mine fires
 - 83 Crushing and fall of ground
 - 84 Flooding of mines
 - 85 Accidents to miners
 - 86 Rescue and relief
 - 87
 - 88
 - 89

623 Military and naval engineering

For military and naval science maneuvers strategy and tactics see 355-359

SUMMARY

- 623 1 Fortifications field and permanent
 - 2 Siege operations mines etc
 - 3 Defensive operations
 - 4 Ordnance and projectiles
 - 5 Gunnery
 - 6 Military roads and bridges
 - 7 Military signals telegraf, ballooning etc.
 - 8 Naval architecture
 - 9 Armor Torpedoes etc
- 1 Fortifications field and permanent
 - 11 Principles of fortification
 - 111 Profiles
 - 112 Plans
 - 113
 - 114 Defilading
 - 115
 - 116 Details bastions, curtains, glacis, etc
 - 117 Accessory defenses
 - Flanking defenses outworks palisades moats obstacles etc
 - 12 Construction of permanent fortifications
 - 122 Earthwork
 - 123 Masonry concrete
 - 124 Armor
 - 13 Systems of forts
 - 131 Central fort
 - 132 Citadel
 - 133 Fortified positions
 - 134 Barrier forts
 - 15 Temporary fortifications Field works
 - 19 Special forts
 - Divided like 939-999 e.g. history of the fortress of Gibraltar 623 19468
- 2 Siege operations Mines
 - Class here only engineering operations For conduct of sieges see 355.44
 - 21 Siege works
 - Investment establishing camps
 - 22 Circumvallation and countervallation
 - 23 Establishing parallels and advancing batteries
 - 24 Zigzags Saps
 - Trenching blindage gabions etc
 - 25 Breaching batteries Breaches
 - For assaults see 355.44
 - 26 Land mines and torpedoes
 - See also 623.05 submarine torpedoes
 - 27 Other means of demolition
 - Trapping and exploding g de etc

623 3 Defensive operations

For maneuvers see 355 44

34 Defense of trenches

35 " breaches

36 Countermines 38 Air raid defenses

4 Firearms, ordnance and projectiles **Arsenals**

Including ammunition in general and fireworks For manufacture of explosives see 662 For general history of war customs and weapons and of ancient engines of war see 399 Class here weapons for gunpowder and similar explosives

41 Artillery material

Class according to use

412 Field artillery material

413 Mountain " "

414 Landing " "

415 Siege " "

416 Fortress " "

Including large guns (fortress coast and naval) considered together

417 Coast artillery material

418 Naval " "

42 Guns

421 Guns according to form and construction

See also 623 5 Gunnery 623 47 Gunmaking

1 Early forms bombards culverins etc

For blunderbuses and other early forms of small arms see 623 441

2 Guns proper or long cannon

3 Short cannon or howitzers (shell guns)

4 Mortars

5 Guns made in a single piece

6 Built up guns

61 Hooped guns

62 Jacketed guns

63 Hooped and jacketed guns

64 Wirewound guns

422 Guns according to mode of loading and operating

1 Muzzleloading guns

2 Breechloading "

3 Rapidfire guns

4 Machine "

41 Multiple tube guns

Gatling guns Hotchkiss revolving cannon

42 Single tube guns

5 Automatic and semiautomatic guns

Hotchkiss Maxim Colt

423 Form and interior arrangement of guns

1 General plan

2 Outside form

3 Hooping

4 Jacketing

5 Bore

6 Rifling

7 Chamber

- 623 424 Breech and firing mechanisms
- 1 Breech closing apparatus
 - 11 Block
 - 12 Wedge
 - 13 Screw
 - 2 Firing apparatus Vent Vent bushing Firing pin
 - 3 Safety apparatus gas checks etc
- 425 Sighting attachments
- For detach apparatus see 623 462
 - 1 Backsight, sliding notch, eyehole etc
 - 2 Sight Foresight
- 43 Mounts and carriages
- Including the parts and accessories
- 431 Field and mountain mounts and carriages
- 1 Field mounts
 - 2 Mountain mounts
 - 3 Machine gun mounts
 - 4 Caissons and limbers
 - 5 Ammunition chests
 - 6 Battery carriages (see tenders)
- 432 Siege mounts and carriages
- 1 Siege gun mounts
 - 2 Howitzer mounts
 - 3 Mortar mounts
 - 4 Siege carriages (see tenders)
- 433 Fortress, coast and naval mounts
- For accessories see 623 435
 - 1 Casemate mounts
 - Pedestal and pivot mounts
 - 2 Barbet mounts
 - 3 Disappearing mounts
 - 4 Turret mounts
- 434 Naval mounts
- For discussion limited to naval use
- 435 Mechanism of mounts
- Platforms circular pintle block and pivots
 - 1 Checks and transoms
 - 2 Chassis and crosshead slides
 - 3 Mechanism for maneuvering and going into battery wheels, trucks rollers
 - 4 Sighting apparatus
 - 5 Recoilchecking mechanism Breeching Vent plug
 - 6 Recoil mechanism Brakes
 - Automatic friction recoil checks
 - 61 Screw brakes
 - 62 Hydraulic brakes
 - 63 Pneumatic "
 - 65 Trail spades
 - 7 Reactionary mechanism
 - Devices for restoring guns to firing position after recoil
 - 71 Spring recuperators
 - 72 Pneumatic recuperators

- 23 436 Maneuvering appliances
- 1 Levers, handspikes, roller handspikes
 - 2 Breeching tackle
 - 3 Shot barrows, shell barrows
 - 4 Projectil hoists
See also 621 86 Hoisting and conveying machinery
- 44 Small arms
- Mechanism and military efficiency
For small arms practice see 355 5
" manufacture of small arms see 683
" weapons prior to firearms see 399
- 441 Primitiv forms of firearms
- Blunderbus, harquebus etc
- 442 Rifles, muskets, carbines, musketoons
- Including also bayonet as part of the complete weapon
- 1 Single shot, muzzleloading
 - 2 " " breechloading
 - 3 Repeating rifles
 - 31 With magazine
 - 32 " loader
 - 4 Automatic guns
- 443 Pistols and revolvers
- 1 Single shot pistols
 - 3 Automatic pistols
 - 4 Revolvers
- 444 Side arms Cutting arms
- For halberds axes dirks poniards, and other antiquated forms see 399
- 2 Swords
 - 3 Bayonets saber bayonets, sword bayonets
 - 4 Lances
- 45 Ammunition and fireworks
- Kinds and relativ efficiency for military purposes For details of manufacture of powder and explosives see 662
- 451 Artillery projectiles
- Including exploder as part of projectil
- 1 Spheric projectiles
 - 11 Solid shot
 - 12 Bombs
 - 13 Shells early shrapnel
 - 14 Grenades
 - 2 Elongated projectiles
 - 22 Case shot canister and grape
 - 25 Elongated bullets
 - 3 Shells
 - 4 Modern shrapnel
 - 5 Segment and ring shell
 - 6 Incendiary shells
For illuminating shells see 623 45446
 - 7 Shells with high explosive Torpedo shells
 - 8 Armorpiercing shells and other projectiles

- 623 452 Powders Explosivs
 See also 662 2 Powder manufacture
- 1 Gunpowder
- 2 Other powders
- 9 Other explosivs
- 453 Fixt ammunition
- 454 Exploding devices and fireworks
 See also 662 Pyrotechnics, explos vs, matches etc.
- 1 Matches and fuzes
- 11 Slow matches and fuzes
- 12 Quick matches and fuzes
- 2 Exploders
- 21 Percussion caps
- 22 Primers
- 23 Projectil fuzes
- 24 " detonators
- 29 Other exploders, etc
- 3 Fireworks bombs etc.
 For torpedoes see 623 05
- 31 Incend ary devices
- 32 War rockets
- 33
- 34 Petards
- 35 Camouflets
- 4 Illuminating fireworks
- 41 Links
- 42 Torches
- 43
- 44 Signal rockets
- 45
- 46 Illuminating projectils star shells
- 455 Small arms ammunition
 For powder see 623 452
- 1 Spheric bullets
- 2 Elongated bullets Minie ball
- 3 Cartridges Fixt ammunition
- 32 Jacketed bullets
- 35 Prohub ted bullets dum dum or expanding explosv
 Those prohub ted by Hague conference
- 46 Artillery accessories
- 461 Battery tools
- 462 Instruments
- 1 Sghting apparatus rear sight quadrants elevating arcs range
 scales
- 5 Range finders
- 463 Implements rammers swabs, levers
- 47 Arsenals
 Subdivide like 621 7

- 623 48 Preservation and care of munitions
 Reception tests accidents
- 481 Preservation
 1 Magazines
 2 Guns
 3 Carriages
 4 Small arms
- 482 Reception Tests Buying
 1 Inspection
 2 Acceptance tests
 3 Function of commissions Experimentation
- 483 Accidents Explosions preventiv mesures
 1 Accidents to persons
 2 " material
 21 Accidents to arms
 22 in transit
 Damage to boats cars etc
 23 Accidents to structures
- .5 Gunnery
 Theoret c and exper mental efficy of artillery system as a whole. See also
 P o e c t a n Re at v index following Tab es
- 51 Theory and strength of guns
- 52
- 53 Interior ballistics
 Effects of powders exper ments
- 54 Exterior ballistics
- 55 Sighting and firing
- 551 Field and mountain guns
- 552 Siege guns
- 553 Fortress coast and naval guns
- 554 Naval target practis
- 56 Effect of projectiles
- 561 On living targets impact gases
- 562 inanimate targets
 1 Earthworks
 2 Masonry Concrete
 3 Armor
- 57 Reaction of mounts
- 571 Rigid rolling mounts
- 572 " sliding "
- 573 Theory of braking
- 574 Mechanically controid recoil
- 575 Nonrecoil mounts
- 58 Traction of carriages

623 6 Military roads, bridges and buildings

From the special point of view of military service For construction in general see 640 1 and 731 for bridges roads and railways see 624 and 625 for sea-coast walls see 627 Hydraulic engineering

61 Military buildings

Duplicating 725 18 for military engineering Libraries should use 725 18 and leave 623 61-64 vacant for construction of fortifications see 621 1

611

612 Barracks

613 Military establishments

Groups of buildings forming a unit e.g. military schools army posts

614 Magazines

62 Military roads and thoroughfares

See also 625 7 Construction of roads

63 Military railways

See also 625 Railway construction

631

632 Destruction of tracks

633

634

65 Military bridges

For permanent bridges see 624

651

652 Pontoon bridges

653 Trestle bridges

654 Other temporary bridges

66 Bridge material

7 Military signals Aeronautics, etc.

Special military applications of science

71 Military topography

Special processes and instruments See also 526 Topography in general

72 Photography

Reproductive processes applied to military art See also 770 Photography

73 Signaling Military telegraphy

731 Visual signals heliographs searchlights etc

732 Military telegraphy

Both wire and wireless See also 621 382 and 654 Telegraphy

733 Military telephony

Both wire and wireless See also 621 383 and 654 6 Telephony

74 Military aeronautics

For principles see 533 6 Aeronautics for construction of a ship see 629 1*
Class here only military utility

741 Machines lighter than air

742 Free balloons

743 Dirigible balloons

744 Captive balloons

745

746 Machines heavier than air aeroplanes

749 Other topics

75 Military sanitation

Camp sites soil water drainage etc For personal hygiene see 613 67

77 Camouflage engineering

- 623 8 Naval architecture Boatbuilding**
 Including warship accessories Class here comprehensive works on shipbuilding
 Subdivide with 001-009 and 02-09 like 620 For ship design and theory see
 623 81 Design for principles of flotation see 532 3 Floating bodies
- 81 General Design**
 Class here also separate discussion of such general questions as flotation displacement stability strength resistance propulsion and design i.e. speed and power coal endurance and steam radius passenger or cargo capacity etc
- 82 Types of ships and boats**
- 821 Primitive and early forms**
- 2 Rafts, catamarans, dugouts, galleys**
- 822 Modern sailing vessels**
- 5 Caravels, sailing yachts, etc**
 See also 797 14 Yachting 623 824 Power yachts
- 823 Engine driven vessels**
 Steam internal combustion electric etc
- 2 Tugs and lighters**
- 4 Ferry boats passenger, freight and train**
- .824 Passenger and cargo vessels**
 River lake or ocean liners power yachts etc For tugs ferryboats small motor boats etc see 623 823
- 825 Warships**
 Fighting vessels battleships cruisers gunboats monitors torpedo boats submarines For sailing men-of-war see 623 822
- .826 Other government vessels**
 Transports hospital ships store and fuel ships (supply food refrigeration ammunition ships collectors mineplanters etc) repair ships lightships and lighthouse tenders police boats revenue cutters fish commissions boats fire boats etc
- 828 Other power vessels**
 Ships for cable laying icebreakers, trawlers etc For dredges see 627 7
- 829 Other boats**
 Flatboats scows lighters canal boats barges rowboats and canoes life boats surf boats
- 83 Appliances peculiar to shipbuilding**
 Model tanks and experiments including also Froude's tests on full size ships launching ways and launching dry or graving docks moldloft and crveboard
- 84 Hull and its accessories**
 Structural watertight compartments systems of construction (wood composite and steel) structural details (fastenings bulkheads etc)
 Nonstructural purely nonstructural decks
- 85 Hull accessories masts and spars, rudder and steering gear drainage etc**
 Lighting ventilation heating refrigeration electric plant and lighting for ship installation only see also 621 1 Electric engineering
 Ship fittings doors hatches etc
- .86 Equipment and outfit**
 Superadded not built in but necessary for effective use of ship
 Sails and rigging anchors chains cables hawsers compasses sounding machines speed logs boats rafts life preservers buoys
 Furniture saloon and cabin furnishings table and galley (kitchen) outfit
 See also domestic economy 645
- .87 Propelling machinery**
 Valuation and balancing For theory of propulsion see 623 81
 See also 621 12 Marine engines 621 185 Steam turbines 621 18 Boilers
- .9**
- .91 Torpedoes** Launching tubes and other accessories

624 Bridges and roofs Viaducts

Subdivide if wisht like 620 1 2 3 and 620 0

- 1 General
- 12 Purpose
 - Highway foot bridges etc. regardless of structural type
- 13
- 14 Location Approaches
- 15 Foundations
 - General works Foundations of bldgs are better class 721 1
- 151 Foundation bed Nature of soil
- 152 Excavation timbering shoring
 - 624 153 157 may be subdivided like 721 13 17
- 153 Material for blding foundations
 - For material for support nature see 624 01
- 154 Pile foundations general Material
- 155 methods of sinking
- 156 Platform foundations
- 157 Subaqueous foundations
 - Processes cofferdam caisson freezing
- 16 Piers and abutments
 - Wood, masonry metal Subd v ded like 620 1
- 17 Stresses and strains
 - General if limited to a special type class with that type
- 171 General Computation of stresses
- 172 Loads
 - Dead live or moving loads
- 173 Highway
- 174 Railway
- 175 Wind pressure
- 176 Working stresses
- 2 Girders and girder bridges
 - Including floor systems see 25 below
- 21 Girders
 - Continuous discontinuous or independent
- 22 Solid beams
- 222 Wood
- 227 Metal
- 23 Plate girders Lattice girders
- 24 Trestles
- 25 Floor systems
- 27 Girder bridge.
- 3 Trusses and trussed bridges
 - Constructed of systems of braced girders
- 31
- 32 Simple truss
- 33 Continuous truss
- 35 Cantilever truss Balance bridge
- 4 Tubular bridges Box-girder bridge

- 624 5 Suspension bridges
- 52 Flexible Rope bridge
- 53 Rigid
- 55 Cables
- 56 Towers or piers
- 57 Anchorage
- .6 Archt bridges
- 62 Wood
- 63 Masonry
Stone brick concrete reinforced concrete
- 67 Metal iron and steel
- 68 Hinged arch
- .7 Compound structures
Structurally compound e. g. plate girder and suspension trussed arch
- 8 Movable bridges Drawbridges
- 82 Bascule counterpoise, folding
- 83 Swing pivot, swivel, turning
- 84 Lifting
Whole bridge lifted vertically
- 85 Rolling
Floating see also 624 87
- 86 Aerial and other traveling bridges
- 87 Pontoon bridges floating, boat or raft
- 9 Roofs
For other relations see Roofs in Relative index
- 625 Railroad and road engineering
May be divided by n and oo like 620 For railway operation see 656
- .1 Way and works
- .11 Route
Reconnaissance preliminary and locating surveys center line grades
curves switchbacks
- .12 Permanent way Roadbed
Earthwork surveys computation classification cuts and fills Drainage
- .13 Structures tunnels culverts, snowsheds
Class here general works on tunnels see also numbering 622 26
For bridges and trestles see 624 for transportation buildings see 725 3
- 14 Track ballast, ties and tieplates strains
Including general works covering also rails and their accessories
- 146 Monorail tracks
- 15 Rails and accessories
Rail braces rail joints chairs track bolts nut locks spikes
- 16 Track accessories
Turnouts switches sidings bumping posts crossings signals turn
tables ash pits track tanks cattle guards
- 17 Road maintenance and repair Materials
- 18 Road equipment
Fences gates platforms track scales yards etc Stations depots, shops
etc considered as road accessories
For stations depots roundhouses etc see 725 3
For shops see 621 7
- .19 Other topics

- 625 2 Trains and accessories**
 Interrelations of road and rolling stock strain and wear
 For car building see 699 For time tables traffic etc see 636
- 21 Running gear**
 Trucks bogies and Bissell bogies wheels axles tires balancing; axle boxes
 and gards lubrication
 Suspension bearing springs
- 22 Cars** See also 699 car building
 Transverse section of car and track gage
 Effect of length of car in rounding curve
- 23 Passenger cars**
- 24 Freight and combination cars**
- 25 Brakes Buffers and couplings**
- 26 Power requirements**
 Length and weight of trains. Speed
 See also 621 13 Steam engines 621 3342 Electric engines 621 43 Gas engines
- 27**
- 28 Monorail rolling stock**
- 3 Inclined and mountain railways**
- 32 Funicular railways**
- 33 Rack railways**
- 4 Elevated and underground roads, subways**
- 5 Cable roads**
- .6 Street railways, tramways**
 See also 621 33 Electric traction 625 4 Elevated and underground railways
 625 5 Cable roads 699 Car building
- .7 Roads, highways, streets**
 See also local government 352 7 Streets highways for pavements see 625 8
- 71 Road systems**
- 711 Rural**
- 712 Urban**
- 72 Location**
 Preliminary and locating surveys Grades Curves
- 73 Roadbed, foundation**
 Earthwork Subsurface drainage
- 74 Dirt roads Crowning Drainage**
- 75 Surfacing Oil and other binders**
- 76 Maintenance and repair**
- 77 Trees Parkings**
- .78 Subsurface condits, pipes, etc**
 Sewers water steam and gas pipes as affecting roads
- 79 Other topics**

DECIMAL CLASIFICATION

625 8 Pavement

- 81 Flagstone
- 82 Stone blocks and brick
 - Including cobblestone Requirements of paving stones
 - For vitrified brick see 625 87
- 83 Wood pavements Corduroy plank blocks
- 84 Concrete pavements
- 85 Asphalt "
- 86 Stone roads
 - Macadam telford and other broken stone processes
- 87 Metal vitrified brick, reinforced blocks
 - For other brick pavements see 625 82
- 88 Sidewalks May be divided like 625 81 87
- 888 Curbs
- 89 Other topics

9 Ship railways

626 Canal engineering

- 1 Route
- 2 Water supply
- 3 Size and shape
- 4 Locks
- 5 Lifts and inclined planes
- 6 Canal boats size, shape, etc See 623 829 Shipbuilding
- 7 Towing, power, etc
- 8 Irrigation canals and other irrigation works
- 9 Ship canals

627 River, harbor, and general hydraulic engineering See also 624 157 and 721 17 Subaqueous foundations

- 1 Rivers and valleys
 - River and valley improvement Force of water discharge bars etc
- 2 Harbors Breakwaters
- 3 Docks Piers Quays Shipping facilities
- 4 Dikes and levees, embankments
- 5 Other protection and reclamation of land from tides and waves, drainage For agricultural drainage see 631 6
- 6 Jetties
- 7 Dredging Dredging machinery
- 8 Dams
- 9 Lighthouses Buoys

628 Sanitary engineering Waterworks

01 Theoretical utility 02 Compendiums 03 Dictonaries 04 Essays 05 Periodicals
 06 Societies 07 Study and teaching 08 Polygraphy 09 History and
 description of sanitation and general sanitary works divided geographically like 930-999

- 1 Water supply of towns For isolated supply see 628 7
- 11 Sources of water supply
 - Lakes rivers springs wells and pumping
- 12 Pumping vs gravitation systems
 - Pump well standpipe high service Holley system

- 628 13 Storage and service reservoirs
- 14 Conduits, aqueducts, tunnels See 625
- 15 Mains and service pipes Freezing iron led
- 16 Impurities and their removal filter basins etc
- 17 Public (sprinkling fire flushing) manufacturing and domestic use and waste meters
- 2 Sewerage works
- 21 Sewerage system
- 211 Combined system
- 212 Separate system
- 213 Liernur system
- 214 Shone system
- 215 Berlier system
- 216 Other systems
- 217 Outfall
- 218 Depth and alignment
- 219 Grade and velocity
- 22 Shape and size of sewers
- 221 Stormwater flow
- 222 Ordinary flow
- 223 Circular section
- 224 Ordinary egg shape
- 225 Other egg shapes
- 226 Other forms
- 228 Formulas for size
- 23 Ventilation of sewers
- 231 Openings in streets
- 232 Lamp posts
- 233 Flues in houses
- 234 Pipes on houses
- 235 House drains
- 236 Chimneys and furnaces
- 237 Charcoal and chemicals to deodorize sewer gas
- 238 Special mechanism
- 239 Special construction
- 24 Design and construction of sewers
- 25 Sewer appurtenances
- 251 Junctions
- 252 House connections
- 253 Manholes and lampholes
- 254 Flushing shafts and fixtures
- 255 Catch basins and inlets
- 256 Traps and ventilators
- 257 Valves and penstocks
- 258 Overflows and regulators

- 628 26 River crossings
- 27 Intercepting and outfall sewers
- 28 Reservoirs and tank sewers
- 29 Pumping stations
- .3 Sewage and its disposal
- 31 Physical properties of sewage
- 32 Deodorization and disinfection of solids and liquids
See also 628 237
- 33 Subsidence
- 34 Precipitation
- 341 Precipitation tanks
- 342 Mixing machinery
- 343 Filter presses
- 344 Precipitation by salts of alumina
- 345 By lime
- 346 By salts of iron
- 347 By other methods
- 348 Disposal of sludge
- 349 Miscellaneous
- 35 Filtration
- 36 Irrigation
- 361 Broad irrigation
- 362 Ridge and furrow irrigation
- 363 Flatbed irrigation
- 364 Subsurface irrigation
- 365 Intermittent downward filtration
- 366 Carriers and appurtenances
- 367 Drains and drainage of sewage farms
- 368 Filtration areas
- 369 Miscellaneous
- 37 Sewage farming Required modifications of ordinary methods
- 38 Sewage manures See also agriculture 631 8425
- 39 Discharge into sea etc
- .4 Sanitation of towns
- 41 Middens and privies
- 42 Pail systems
- 43 Earth closet systems
- 44 Domestic ashes garbage and refuse
- 45 Public urinals and latrines
- 46 Street cleaning and sprinkling
- 47 Pavements and subways
- 48 Trees in streets and squares
- 49 Manufacture of fertilizers from town wastes

ENGINEERING

- 628 5 Industrial sanitation
- 51 Factories and trades
 - 511 Prevention of dust and fumes
 - 512 Protection of throat and eyes
 - 513 Protection against infection
 - 519 Special trades
 - 2-99 Divided like 620-699

For trades not included in 620-699 use 628 5191 divided like main classification
 - 52 Effluvia nuisances
 - 521 Situation of works
 - 522 Use of high chimneys
 - 523 Condensation in water
 - 524 Combustion in furnaces
 - 529 Special trades
 - 2-99 Divided like 620-699

For trades not included in 620-699 use 628 5291 divided like main classification
 - 53 Smoke nuisance
 - 538 From steam generators
 - 539 From special industries
 - 2-99 Divided like 620-699

For industries not included in 620-699 use 628 5391 divided like main classification
 - 54 Disposal of solid and liquid wastes
 - 541 Discharge into natural waters

Into streams lakes oceans
 - 542 Absorbing wells and burial
 - 543 Clarification by subsidence
 - 544 Chemical treatment
 - 545 Filtration
 - 546 Purification by the soil
 - 548 Special methods
 - 549 " trades
 - 2-99 Divided like 620-699

For trades not included in 620-699 use 628 5491 divided like main classification
 - 6 House drainage
 - 7 Rural water supply villages and country houses
 - 8 Ventilation and heating Air conditioning

This head is chiefly for ventilation Most matter on heating goes in 697
See also Heating Ventilation in Relative index following Tables
 - 9 Lighting

For other relations and applications see Lighting in Relative index

629 Other branches of engineering

.1 Automotiv industries

Air, land water, treated together, for water craft alone see 623.8

.13 Aeronautics

See also 387.7 Commerce, 533.6 Physics 623.74 Military aeronautics 656 Transport. For full list of form divisions see Table 2 after Relative Index

.1307 Study and teaching

72 Research Experimentation

722 Laboratories Experiment stations

723 Wind tunnels Wind channels

724 Basins Water channels

725 Methods

2 Laboratory methods General experimental methods

3 Wind tunnel technique and manipulation

78 Apparatus Instruments Equipment

Tools machinery etc

782 General laboratory apparatus

Accelerometers etc

783 Wind tunnel equipment

9 History and local treatment

Including general accounts of voyages and flight records but accounts of special voyages or records may be classed according to purpose with type of machine used record made or special application Divided like 940-990

131 General questions

132 Basic considerations

2 Aerostatics

Equilibrium pressure and properties of still air

3 Aerodynamics

31 General principles and theories

Bird flight soaring gliding vortex theory, theory of similitude, etc

32 Air flow Shipstream Bubbling Turbulence

33 Lift Thrust

34 Resistance Drag

Hed resistance structural or parasite resistance, wing resistance

35 Pressure

Pressure distribution

36 Stability Oscillations Damping

Lateral longitudinal, directional, dynamic inherent stability, etc

37 Viscosity Skin friction Boundary layer

4 Meteorologic conditions

Visibility etc Divided like 551.5

629 1325

Navigation Aviation

Astronomy for air pilots

51 General questions

52 Flying

Altitude distance duration endurance speed blind, night
stunts etc flying

53 Airways Aerial routes

Atmosphere roads

54 Aerial maps Air topography

Charts log books, pilot guides

55 Accidents Air disasters

552 To aircraft

558 Accident prevention

553 " persons

See also 614 86

554 " cargo

Protection of
travelers

56 Medical aspects

561 Physical requirements for flying

563 " examination of pilots

564 Air sickness

See also 612 27, 511 Physiology

133

Aircraft

*If it is desired to keep all structural and other details of specific types
of aircraft with those types 4-8 under each type may be divided like
629 134 138 below*

2 Lighter than air Aerostation

21 General questions

22 Nondrigible

Balloons montgolfièr, pilot balloons, balloon sonde, late and
capt v balloons

24 Drigible Airships

25 Rigid Zeppelins

Structure airships

26 Semirigid

27 Nonrigid Blimps

Pressure airships

3 Heavier than air Aviation

31 General questions

32 Kites

33 Gliders

34 Airplanes

341 General questions

342 According to weight

343 " " number of planes

1 Monoplanes

3 Triplanes

2 Biplanes

4 Multiplanes more than
planes

344 Open or closed

345 Tandem or following planes

346 Hovering machines

347 Hydroairplanes Hydroplanes

Seaplanes, flying boats

348 Amphibians

349 Other planes

35 Helicopters Autogiros

36 Ornithopters Orthopters

37 Aviators

38 Rocket propelled aircraft

39 Other heavier than air aircraft

DECIMAL CLASSIFICATION

629 134	Construction
1	Principles of construction Design Strains and stresses, size volume area, linear dimensions, shape weight displacement etc
2	Materials Divided like 620.1
3	Parts and details
31	Frame Envelop Body
32	Supporting surfaces and elements
322	Gas cells Ballonets
2	Inflation materials Hydrogen helium hot air etc
323	Planes Wings Airfoils
328	Accessory elements Trusses struts, ribs spars webs, netting wires, covering etc
33	Control and steering surfaces and elements Fins, ailerons, elevators, rudders etc
34	Carrying compartments Basket car cabin, fuselage cockpit seats control compartments, instrument board passenger freight and baggage engine etc compartments methods of attachment etc
35	Motors For types of motors and motor fuels see 621.4
36	Propellers Air screws
37	Rigging, bracing, longerons etc
38	Starting and landing apparatus
382	Inflation and deflation apparatus Rip panels etc
384	Floats Pontoons Chassis Undercarriage Wheels
	1 General questions 4 Wheels
	Design, method 5 Skids
	of attachment 6 Shock absorbers
	etc 7 Skis Landing gear
	2 Floats Pontoons for use on snow
	3 Chassis Undercarriage
385	Anchors
386	Parachutes
39	Other
4	Protective and safety devices Waterproofing fireprevention, safety glass, etc
5	Performance and performance calculations
	Inspection Speed climb etc. Mechanics testing sand load testing dynamic or flight testing

629 135

Equipment and fittings

For military aviation equipment see 623 74

1

Navigation equipment

See also 621.3841914 Radio equipment

12 Automatic pilot

Gyropilot

13 Direction finders

14 Height indicators

15 Distance and speed indicators

16 Balancing and stabilizing equipment

18 Landing and navigation lights

Landing flares

2

Performance equipment

3

Engin equipment

4

Electric equipment

5

Communication equipment

For radio equipment see 621.3841914 see also 622 1366 Airports

6

Photographic equipment

See also 778 Photography

7

Personal equipment

Clothing goggles, safety belts, oxygen apparatus etc

8

Accessory equipment

Chronometers temperature indicators ballast instrument mountings, supports shock absorbing devices etc

9

Other

136

Airports Airdromes Seadromes

Landing fields flying parks, etc

2

Selection Location Design

3

Construction

Drainage roads, runways

4

Structures

Hangars sheds, offices, waiting rooms, repair shops, mooring masts, etc

5

Lighting equipment

Searchlights flares aerial lighthouses, etc

6

Communication and signaling equipment

See also 621 3841914 Radio

8

Fire protection

629 138

Applications

In general practis applications ar preferably clast with their subject,
e.g. 387.7 Air transport. For military aeronautics see 623.74

1

General questions

Use of aircraft vs other means of transport

2

Transport servis

Class here general engineering, discussion of commercial aeronautics

22 Passenger 23 Mail Parcel 25 Freight
post Express

See also 383

Postal servis

3

Political Diplomatic

Goodwill flights etc

4

Patrol and guard duty

42 Police

44 Protection of property

43 Coast and boundary patrol

Fire protection forest
patrol etc

Prevention of smuggling,
etc

5

Exploration Survey

55

Scientific

552

Geodetic Topographic

553

Physical

For study of principles of physics

555

Geologic

1 Physiographic

3 Economic

15 Meteorologic

To determine geologic
resources

557

Biologic

558

Botanic

559

Zoologic

57

Photographic

See also 778 Photography

59

Geographic

6

Industrial

61 Medical and sanitary
servis Life saving

62 Prospecting Mining

63 Agricultural

612 Disease prevention
and cure

Crop dusting etc

639 Fisheries Whaling

Destruction of flies

Bombing scouting etc

mosquitoes etc

Servis in epidemics

69 Advertizing

Sky writing, etc See

613 Ambulance servis

also 659.138 Advertizing

Rescue of injured,

drowning etc rescue

from fire, cold

storms etc

617 Transport of dead

7

Sport

Sight seeing racing etc See also 797.5 Acrostation

8

Interplanetary, interstellar flight

Astronautics

9

Other applications

Divided like main classification

- 629.2 Motor vehicles Automobiles Mechanically propelled highway vehicles
 For highway vehicles for separate tractors (animal or mechanic) see 684
- .21 General questions
- 213 Social and commercial aspects
- 3 Economics
- 4 Laws Legal aspects
- 42 Registration Titles Taxation Licenses
- 43 Traffic regulations
 See also 388 Traffic laws and regulation
- 6 Accidents and accident prevention
 See also 614 802 Protection of travelers
- 62 Fire prevention
 See also 614 84 Fires
- 63 Insurance
 See also 368 Insurance
- 7 Accounting
- 8 Sales Prices
 801-83 may be divided like 638 801-83 including Advertising on 629 213 821
- 89 Prices
- .22 Types
- 222 Passenger
- 2 Private
 Vehicles for private use or ownership
- 3 Public
 Buses, jitneys taxicabs, sightseeing cars, etc
- 223 Delivery
 For light loads or local use
- .224 Trucks
- 2 Freight trucks
 For heavy hauling moving vans etc
- 3 Dump trucks
- 32 Side dump 34 Chain hoist
- 33 End " 35 Hydraulic
- 225 Tractors
 See also 621 14 Traction engines 631 372 Farm tractors
- 2 Wheel type 3 Caterpillar type
- 226 Trailers Sidecars
- 2 Trailers
- 22 2 wheel 26 Intersupporting with auxiliary wheels
- 24 4 wheel 27 Permanently attached
- 3 Sidecars
- 227 Bicycles, motorcycles etc
- Velocipedes
- 1 Unicycles Monocycles 5 Motorcycles
- 2 Bicycles 6 With 2 or more seats
- 3 Tricycles Tandems etc
- 4 Multicycles* quadri-cycles etc
- .228 Special purpose vehicles
 Divided like main classification
- 229 Other types of mechanically or motor propelled vehicles

DECIMAL CLASIFICATION

629 23	Construction
232	Materials
	Works limited to material used only for some special part or best class under number for that part
2	Metallic materials
22	Ferrous
23	Iron and iron alloys
24	Steel and steel "
25	Nonferrous
26	Aluminum and light alloys
27	Copper and copper "
	Brass bronze etc
28	Babbitt and other bearing metals
29	Other metallic materials
	May be divided like 553 4
3	Nonmetallic materials
31	Wood
32	Rubber
33	Glass
34	Upholstery
345	Leather
347	Textile materials
	May be divided like 677
35	Paper
36	Celluloid
37	Paints, varnishes and other finishing materials
38	Friction materials
39	Other nonmetallic materials
233	Testing and inspecting raw materials
	For final inspection of finished parts see 629 2347
2	Instruments and equipment for testing
3	Methods of testing
234	Production Manufacture
	See also 621 7 Mills and factories
1	Methods and equipment for manufacture and assembly
19	Machine tools
	May be divided like 621 9
2	Factory buildings and layout
	May be divided like 658 2
3	Factory personnel
	May be divided like 658 3
4	Pattern making Molding Foundry
	May be divided like 621 71 See also 621 72 Pattern shop, 621 74 Foundry
5	Forging
	Hand and drop forge May be divided like 621 71 See also 621 73 Forge shop
6	Finishing
	Trimming upholstering painting plating May be divided like 621 71 See also 621 795 Finishing shop
7	Inspection of parts, accessories and assemblies
8	Crating Storage Shipping
9	Other

Chassis

Chassis includes motor supporting frame change speed mekanism running gear and steering gear but does not include body or accessories For motor see 629 25

243

Frames

- | | | | |
|---|------------------------|---|------------------|
| 2 | Side and cross members | 5 | Gussets |
| 3 | Subframes | 6 | Engine mountings |
| 4 | Rivets | 7 | Fans and aprons |

243

Springs

2

Types

- | | | | |
|----|------------|----|----------|
| 22 | Elliptic | 24 | Coil |
| 23 | Cantilever | 25 | Platform |

3

Methods of spring attachment

- | | | | | | |
|----|---------|----|-------|----|----------|
| 32 | Hangers | 33 | Seats | 34 | Shackles |
|----|---------|----|-------|----|----------|

4

Spring action modifiers

- | | | | |
|----|----------|----|-----------------|
| 42 | Snubbers | 43 | Shock absorbers |
|----|----------|----|-----------------|

244

Clutches Change speed mekanism and controls

Transmission

2

Clutches

- | | | | |
|----|-----------------|----|-----------------|
| 22 | Friction clutch | 23 | Magnetic clutch |
|----|-----------------|----|-----------------|

3

Clutch brakes

4

Transmission Gear shift

Change speed mekanism and controls

- | | | | |
|----|-----------------|----|----------------|
| 41 | Planetary | 46 | Levers |
| 42 | Sliding gear | 47 | Shift mekanism |
| 43 | Mountings | 48 | Interlocks |
| 44 | Control springs | 49 | Other |
| 45 | Pedals | | |

245

Rear axles and final drives

Including mekanism transmitting power from change speed mekanism to road wheels

- | | | | |
|---|-----------------|---|----------------------|
| 1 | Chain drive | 6 | Universal joint |
| 2 | Jack shaft type | 7 | Torque element |
| 3 | Propeller shaft | 8 | Differentials |
| 4 | 4 wheel drive | 9 | Other |
| 5 | Driving axles | | Variable speed axles |
| | | | Housing hubs shafts |

246

Brakes

2

Rear wheel brakes

3

Front " "

4

4 " "

5

Transmission "

6

Brake control

- | | | | | | |
|----|---------|----|----------|----|-----------|
| 62 | Mekanic | 63 | Electric | 64 | Hydraulic |
|----|---------|----|----------|----|-----------|

7

Brake mekanism

- | | | | |
|----|--------|----|---------------------------|
| 72 | Levers | 73 | Cams and connecting links |
|----|--------|----|---------------------------|

8

Friction surfaces

For friction materials see 629 23238

247

Front axles and steering

- | | | | |
|---|---------------------|----|--|
| 2 | Rear wheel steering | 8 | Steering gear |
| 3 | Front " " | | Includes mekanisms from steering wheel to arms on knuckles |
| 4 | 4 " " | | |
| 5 | Axles | | |
| 6 | Knuckles | 82 | Steering wheel |
| 7 | Arms | 83 | Radius rod |
| | | 84 | Spindles |

DECIMAL CLASSIFICATION

Road wheels

- 2 Compression wheels
- 22 Wood
- 23 Disk
- 24 Stamp
- 25 Spoke
- 26 Cast
- 3 Tension wheels
 - In which load is supported in tension e.g. wire wheels
- 4 Hubs and bearings
- 5 Rims
- 6 Tires
- 62 Solid
- 63 Pneumatic
 - Balloon tires etc
- 64 Fabric
- 65 Cord
- 66 Tubes
- 67 Fild
- 68 Spring and other special types
- 69 Special treds

.25

.251

Motor

Engin

Types

See also 621.438.4 Motors for self propelled vehicles

If it is desired that all material on a special type be kept together each type may be subdivided like 252-259 below

- 2 Steam
- 22 Steam engines
- 23 " turbines
- 3 Turbin
- Other than steam including general discussions of turbine propelled motor vehicles
- 4 Internal combustion
 - 42 Gasolin
 - 43 Alcohol
 - 44 Gas
 - 45 Oil
- 5 Electric
- 6 Comprest air
- 8 Rocket propulsion
- 7 Diesel etc

.252

Motor parts

- 1 Cylinders and cylinder heads
- 2 Crank cases and bases
- 3 Pistons Rungs
- 4 Pins
- 5 Connecting ring bearings
- 6 Crank shaft and bearings
- 7 Fly wheels
- 7 Valvs Valv mekanisms
- 8 Manifolds Mufflers
- 82 Manifolds
- 83 Mufflers
- 9 Other

.253

Fuel sistem

- 2 Vaporizer
- 3 Carbureter
- 4 Fuel controls
- 5 " supply
- 6 Heaters
- 7 Air cleaners
- 8 Fuels

.254

Gravity pressure vacuum, p pes superchargers

See also 629.251
Motor types 665
Oils and gases

Ignition sistem

- 1 Hot bulb
- 2 Make and break
- 3 Jump spark
- 4 Electric energy
 - Batteries magnetos generators See also 621.313 Dynamo-electric machinery 621.35 Volta c cels and generators
- 5 Coils
- 6 Spark plugs
- 7 Timers Distributors
- 8 Ignition controls
- 9 Other

629 255

Lubricating system

For lubrication see 629 2874

- | | |
|----------------|--------------------|
| 2 Gravity feed | 5 Lubricant supply |
| 3 Splash | 52 Tanks |
| 4 Force | 53 Pipes |
| 42 Full | 6 Purifiers |
| 43 Partial | 7 Lubricants |
| | See also 66, 0 1s |

256

Cooling system

- | | |
|-----------------------|---------------------------|
| 2 Air radiation | 4 Steam and other types |
| 22 Direct | 5 Radiators |
| 23 Forced | 6 Fans and fan drives |
| 24 Induced | 7 Pumps |
| 3 Water | 8 Cooling system controls |
| 32 Thermosiphons | |
| 33 Forced circulation | |

257

Starting system

- | | |
|---------------|-----------------------|
| 2 Hand | 4 Comprest air or gas |
| 3 Compression | 5 Spring |
| | 6 Electric |

258

Governors

- | | |
|----------------|--------------------|
| 2 Valv control | 3 Throttle control |
| | 4 Spark control |

259

Other

26

Body

See also 629 22 Types of vehicles for body accessories see 629 278

261

Types

- | | | |
|--------|----------|--------------|
| 2 Open | 3 Closed | 4 Enclosures |
|--------|----------|--------------|

262

Frame

- | | | |
|-------|-----------|----------|
| 2 Sls | 3 Pillars | 4 Braces |
|-------|-----------|----------|

263

Paneling Seats

- | | | |
|-----------|--------------|---------|
| 2 Shrouds | 4 Instrument | 8 Seats |
| 3 Doors | 5 Hoods | |

264

Windshields Windows

- | | |
|--------|-------------|
| 2 Glas | 3 Celluloid |
|--------|-------------|

265

Trim

For hardware see 6 9 2 5

- | | |
|-------------------------|------------------|
| 2 Seat and back springs | 4 Floor covering |
| 3 Upholstery | 5 Arm rests |

See also 629 23234

Upholstery materials

266

Tops Side curtains

- | | |
|----------|-------------|
| 2 Frames | 3 Coverings |
|----------|-------------|

267

Fenders Splash guards Aprons Running boards

- | | | |
|-----------|-----------------|------------------|
| 2 Fenders | 3 Splash guards | 4 Running boards |
| | Aprons | |

268

Finish

Paints varnishes enamels lacquers etc. See also 629 23237
Finishing materials

269

Other

629 27	Details	Accessories	Parts of general
	manufacturing		
271	Lighting		
	See also 629 254 Ignition system		
	2	Lights	3 Beam modifiers
	22	Headlights	32 Dimmers
	23	Auxiliary lights	33 Masks
	24	Tail lights	4 Reflectors
	25	Dome "	5 Focus adjusters
	26	Courtesy lights	
272	Tools	Jacks	Pumps Skid chains
	2	Tools	3 Jacks 4 Pumps 5 Skid chains
273	Gages	Indicators	Signals
	2	Gages	4 Signals
		Oil and gasoline gages etc	Horns bells etc
	3	Indicators	
		Ammeters speedometers etc	
274	Carriers		
	2	Tire racks	3 Baggage carriers 4 Tool chests
275	Hardware		
	Door locks, handles hinges ash trays etc		
276	Bumpers		
277	Heaters		
278	Body accessories		
	2	Windshield cleaners	4 Visors
	3	Speaking tubes	5 Ventilators
279	Other details and accessories		
28	Operation	Repair	
281	Touring		
282	Racing	Hill climbing	
	2 Racing	3 Hill climbing	4 Road tests
			Endurance tests
283	Passenger transportation		
	2	Private vehicles	3 Public vehicles
284	Delivering	Trucking	Pulling
285	Housing	Garages	
	2	Private	3 Public
286	Service stations		
287	General care	Large scale care	
	2	Washing	4 Greasing Lubrication
	3	Polishing	5 Minor adjustments
288	Individual care		
	May be divided like 629 287		
289	Other		
29	Other topics		

SUMMARY

- 631 Farmstead
 - 632 Hindrances Protection
 - 633 Field crops
 - 634 Fruits
 - 634 9 Forestry
 - 635 Garden crops
 - 635 9 Floriculture
 - 636 Domestic animals
 - 637 Dairy and dairy products
 - 638 Useful invertebrates raised or exploited
 - 639 Hunting, trapping, fish culture
- .1 Rural life
Rural erodus. Improvement of country life conditions. See also 323 354
- .2 Compendis
- Divided like 500 e g 630 23 Agricultural physics 630 2522 Agricultural bacteriology
- Only for general treatises. Those relating to a special subject are classed with the subject e g chemistry of milk 637 127
- .3 Dictionaries, cyclopedias
- .4 Essays
- .5 Periodicals
- .58 Yearbooks Directories
- .59 Kalendars Almanacs
- .6 Societies, clubs, conferences
Farm bureaus
- .61 Official institutions government departments
- .62 Voluntary associations
Not under government control Cooperativ agriculture
- .621 International (International institute of agriculture)
- .624-9 Associations divided by country
Subdivided like 910-999 e g 630 6244 French agricultural societies, 630 6273 Patrons of Husbandry, including state and local granges, Farmers alliance etc
Societies of limited scope are classed with their subjects, e g horse breeders associations 636 106
- .63 Congresses, conferences temporary organizations
- .7 Study and teaching
For agriculture as a school subject see 375 63, for school gardens see 372 36
- .71 Instruction, schools
- .711 Colleges Alfabetic, but may be subdivided like 910-999 if preferred
- .712 Schools Arranged like .711 colleges
- [.713 Short courses
- 2 Summer
- 5 Winter
- .714 Correspondence courses
- .715 Institutes Farmers institutes
- .716 Courses in nonagricultural institutions
- .717 Extension work
County agent, boys and girls clubs
- .719 Other instruction
- .72 Research work Experiment stations
- .74 Museums, exhibits
- .77 Special pedagogic methods
- .775 Normal training classes
- .79 Competitions, prizes etc.
- .9 History and general local treatment
Divided like 910-999

631 The farm, farmstead

SUMMARY

- 631 1 Farm economics
 - 2 " buildings
 - 3 " machinery and tools
 - 4 Land soil sol chemistry
 - 5 Farm operations
 - 6 Drainage and reclamation
 - 7 Irrigation and conservation of moisture
 - 8 Fertilizers
 - 9 Climate roads etc
- 631 2 Geographic distribution of cultivation
- 631 3 Zones and physical regions
 - 1 Arctic regions
 - 2 Temperate zones
 - 3 Tropics
 - 4 Mountains

631 1 Farm economics

Farm and estate management

11 Selecting and acquiring a farm

Land settlement guides

Location nearness to market means of communication by water by land
(airways highways) climate and rainfall

112 Purchase

Cost valuation taxes

113 Rent

114 Share systems (Métayage)

See also 631 1153

115 Systems of working a farm

1 Owner his own farmer

2 By a manager

3 Share system

From owner's point of view

See also 631 114 from worker's point of view

4 Renting

From owner's point of view

See also 631 113 from renter's point of view

116 Scale of farm

1 Large farm

2

3 Small farm (One-man farm)

12 Laying out farm

Locating buildings fields farmsteads roads and lanes

13

14 Types of farms

141 Crop farm

See 6313 Field crops 6314 Fruits 6315 Cereal crops

142 Vegetable farm

See 6315 Garden crops

143 Fruit farm

See 6314 Fruits

144 Woodlands

See 6319 Forestry

145 Stock farm

See 6316 Domestic animals 6317 113 Dairy farms

146 Fish culture in ponds

See 6319 Hunting, trapping fishing

- 631 16 Finances and accounts Bookkeeping records
 17 Expenses
 171 Buying supplies Purchases
 173 Wages
 175 Insurance bldings, stock, crop
 See also Insurance business 358
 177 Packing, shipment
 For methods see 631 564
 18 Returns Selling products
 Marketing
 2 Farm bldings
 For arch tecture, see 723 67 Farm houses 728 9 Outbldings
 21 Houses Dwellings
 22 Barns Poultry houses Stables
 23 Granaries Silos
 24 Carriage houses
 25 Machine sheds
 26 Other bldings
 27 Fences, walls hedges
 28 Roads bridges etc
 3 Farm machinery Tools, appliances, etc
 Care and repair of farm machinery Catalogs of machinery etc.
 31 Clearing and soil working general tools
 311 Digging tools machines etc
 1 Spade turf, ditching, post, polisht drain, longhanded garden
 spades
 Shovel prongd shovel For steam shovel see Cat 863
 Spud
 2 Small tools
 Trowel, for masons trowel see 693 Dibble dibber or dibbler See
 also 631 3311 Seeders
 3 Posthole digger
 Posthole auger or borer Spudding b t
 4 Forks, for digging, etc Dung fork
 For hay forks pitchforks see 631 3535
 5 Digging machines
 Spaders rotary spaders horse shovel road scraper
 6 Crow or crowbar
 Pick See also mining picks 622 21
 Pickax mattock grubbing hoe grubbing ax
 7 Stump extractor or puller Stone gatherer Bush sythe
 312 Plows
 1 Common plow, walking plow, hand plow
 2 Riding plow, sulky plow
 Double plow double-furrow plow 2-furrow plow
 Balanst plow Gang plow, multiple-furrow plow
 3 Power plow
 Steam plow traction engine, stationary engine oil or gas engine; electric

- 631.3124 Reversible plow, turning moldboard plow
 S dehl or hils de plow turn wrest plow one-way plow dril plow also
 sometimes called double plow and swing plow
- 5 Breaking plow
 Paring plow sod plow prairie plow skim plow
- 6 Pulverizing plow, stubble plow, digging plow
 Subsoil plow mole plow
- Double moldboard plow, doublebreasted plow
 Middlebuster or burster middle breaker
- 7 Other special plows
 Vineyard plow Stump jumper or stumpjump plow
 Seeding plow Skim colter plow
 Scooter Bul tung and calf tung plow
- 8 Disk plow
- .313 Harrows
- 1 Smoothing harrows
 Bush harrows plank-scraper fixed and adjustable tooth frame harrow
- 2 Chain harrow
- 3 Spring tooth harrow
- 4 Curved knife-tooth harrow, pulverizer
- 5 Revolving harrow
- 6 Disk harrow full disk, cutaway
- 7 Spading harrow, scuffle harrow
- 8 Special uses
 Orchard disk harrow
- .314 Rollers, etc
- 1 Rollers
 Wood stone metal Hand horse riding power
- 2 Disk rollers
- 3 Clod crushers, clod breaker
- 4 Subsurface packer
- 6 Planker, plank drag
- 315 Hand gardening tools
- 1 Hoe
 Draw field bayonet garden
- 2 Thrust, Dutch, push, scuffle, D hoe
- 3 Scarifier or scraper
- 4 Weeder
 Hand weeder finger weeder weed hoe, weeding forceps weeding fork,
 weeding iron weeding pointers weeding tongs
- 5 Weed cutters
 Weed hook weeding chisel weeding shears
- 6 Garden rakes wood, iron
- .316 Cultivators
- 1 Wheel hoe, hand cultivator
- 2 Horse cultivators
 Walking cultivators horse hoe shovel plow
 Scarifier scooter scuffler harrow sweep grubber
- 3 Riding or sulky cultivators
 Balance frame
- 4 Surface or gofer cultivator
 Heel scrape scrape
- 5 Disk cultivator
- 6 Stalk cutter

AGRICULTURE

- 631.33 Seeding and sowing machinery
 - .331 Seed sowers, seeding machines
 - 1 Broadcast sowers, seeders
 - Hand machines
 - 2 Walking
 - 3 Riding
 - 4 Land and row markers
 - 5 Furrow sowers Drills
 - 6 Walking
 - 7 Riding
 - 8 Special sowers
 - .332 Planters
 - 1 Hand, foot
 - 2 Walking
 - 3 Riding
 - 4 Check rowers
 - 8 Special planters
 - .333 Fertilizer distributors
 - 1 Hand machines
 - 2 Walking
 - 3 Riding
 - 4 Liquid fertilizer
 - 5 Pulverized "
 - 6 Farmyard manure, manure spreaders
 - .334 Mixt spreaders
 - Both fertilizer and seed
 - .335 Propagation apparatus
 - Cutting benches layering pots, etc.
 - 336 Transplanters
 - 1 Ballers
 - 6 Tree conveyers
 - 34 Equipment for care of plants, trees, etc.
 - .341 Grafting, etc. implements and material
 - Budding knife grafting knife, grafting wax
 - .342 Pruning
 - 2 Shears or pruner Hedge trimmer
 - 2 Knife or hook
 - 3 Chisel
 - 4 Bd hook
 - 5 Ax or hatchet
 - 6 Saw
 - 7 Scraper
 - 344 Protection and shelter
 - See also 632.1 and 632.9
 - 1 Bel glasses
 - 2 Cold frames
 - 3 Hot beds
 - 4 Greenhouses
 - 5 Forcing houses

- 631 345 Supports
- 1 Vertical cords and wires
 - 2 Poles, stakes, stays, props
 - 3 Trellises, espaliers
 - Horizontal wires or cords
 - 4 Fruit walls
- 346 Receptacles pots, boxes, etc
- 35 Harvesting
- 351 Hand tools primitiv tools
- 1 Sickle, reaping hook, gras knife, gras hook
 - 2 Syth
 - 3 Cradle, cradle syth
- 352 Mowers
- 7 Lawn mowers
- 353 Other haying implements
- 1 Hay spreaders, tedders
 - 2 Hay rakes, gatherers, binders, windrowers
 - 3 Hay loaders
 - 4 Hay stackers
 - 5 Hay forks and carriers
- 354 Reapers
- 1 Self binders
 - 2 Harvester Combined harvester and thresher
 - 3 Heders Clover heders
- 355 Corn harvesters
- 1 Corn shockers
 - 2 Stubble cutters
 - 3 Corn pickers
 - 4 Strippers
 - 5 Toppers
- 358 Harvesting tools for special crops
- 1 Fruits, nuts
 - 3 Legumes, peas, beans, etc
 - 4 Root crops, etc
 - 5 Fiber crops cotton, flax, hemp
 - 6 Sugar cane
 - 7 Other crops
 - 8 Tree products
 - Maple (sap) p ne (turpentine) gums resins gutta percha etc

- 631 36 Machinery, tools, etc used in preparing for storage or transport
- 361 Threshers etc
- 1 Primitive tools
Flails drag wain
- 2 Mechanical threshers
- 3 Huskers
- 4 Shellers
- 362 Cleaning
- 1 Primitive tools
Shovel, s v fan
- 2 Winnowers, fanning machines
- 3 Sorters, sifters
- 6 Washers for roots and tubers
- 363 Silo machinery
Ensilage cutters
- 364 Packing for transportation or storage
- 1 Bundlers
- 2 Balers Baling presses
- 3 Bunchers
- 4 Packers baskets, boxes
See 631 3731
- 37 Power, power transmission appliances Transport
- 371 Motiv power
- 1 Human power
- 2 Animal power
- 3 Water power
- 4 Windmills
- 5 Steam engines
- 6 Gas engines, oil and alcohol
- 7 Electricity
- 372 Tractors
- 1 Steam
- 2 Gas, oil, alcohol
- 3 Electric
- 373 Transport appliances
- 1 By carrying
Baskets boxes bags etc handbarrows
- 2 On animals backs packs, saddlebags, etc
- 3 Drags Sleds Stoneboats
- 4 Hand carts, wheelbarrows
- 5 Wagons Chute wagons Drays
Dumping wagons hayracks lumber wagons trucks
- 6 Motor trucks
- 9 Other vehicles
- 374 Harness Saddles
- 38 Implements for care of farm animals

DECIMAL CLASSIFICATION

631 5414	Grafting according to position of scion
41	Root grafting
42	Crown "
	See also 631 54136 note
43	Stem grafting (on main stem or trunk)
44	Top " (on top or branches)
5	Bud grafting Budding
	Formerly called inoculation Flute grafting
6	Grafting by approach, inching
7	Binding and protecting grafts
8	Indoor grafting
542	Pruning
1	Winter pruning
11	Theories of pruning
12	Methods of pruning
13	Heading in
14	Thinning of branches
15	Scraping
17	Time to prune
2	Summer pruning Work on green wood
21	Pinching in
22	Nipping off buds
23	Clipping
24	Ringing girdling
27	Thinning fruit
3	Trimming (to secure definite shape)
543	
544	Protection and shelter
1	Bell glasses
2	Cold frames
3	Hotbeds
4	Greenhouses
5	Forcing houses
6	Unheated houses
545	Retardation
546	Training
1	Vertical, poles, stakes, cords
3	Espalier or trellis training
4	Wall training
5	Arbor training
6	Cordon training
547	Stages of plant growth
1	Seedling
2	Increase, growth
3	Maturity
4	Flowering
	Pollination pollen setting
5	Fruitage
6	Ripening

631.55

Harvesting

These numbers treat of the material operations of harvesting. Class anything about a definite crop under its special number, e. g. 633.11 Wheat crop. See also 631.56 for preparation of crop for market. 636.035 for preparation of food for cattle, etc. For farther preparation of agricultural products not usually done by the farmer at the present day see the various divisions of commerce, technology and manufactures.

.552

Mowing

.553

Hay making, stacking, etc.

.554

Reaping

.555

Corn harvesting

.556

Harvesting other special crops

For cutting and felling trees see 634.9 Forestry

1

Fruits, nuts, etc.

3

Legumes: peas, beans, etc.

4

Root crops and tubers

5

Fiber crops, flax, hemp, cotton picking

6

Sugar cane, etc.

7

Saps, gums, resins, etc.

8

Other crops

9

.56

Operations subsequent to harvesting

See note under 631.55

.561

Preparing grains

2

Threshing, etc.

3

Husking corn, etc.

4

Shelling corn

.562

Cleaning, etc.

2

Winnowing

3

Sorting, sifting

6

Washing (roots, tubers, etc.)

.563

Storing

Cutting green fodder and filling silos

.564

Packing

2

Baling

4

Packing in baskets, boxes and barrels

.565

Transport

In general libraries preferably class under 380 or 650

57

Special methods

58

Fallowing

581

Crop rotation

.582

Intensive farming

583

Catch crop culture

584

585

Dry farming Deep soil culture

586

Irrigation farming

587

Application of special forces

588

Electro culture

1

Radio

2

- 631.6 **Reclamation Drainage**
 Agricultural engineering
- 61 Initial operations
- 611 Prairies
- 612 Waste lands rocks and bushes
- 613 Hillsides terracing
- 614 Forests
- 615 Marshes Swamps
- 616 Lands under water Polders
- 617 Deserts
 See 631.7 Irrigation
- 62 Drainage methods
 Ditches Drains (open covered tile)
- .63 Drainage systems
 Plans layouts
- 64 Dikes and embankments
- 65 Water removal by machinery
 Pumps windmills etc
- .7 **Irrigation, water supply**
 Conservation of moisture Rainfall streams
- 71 Source of water wells, reservoirs
- 72 Irrigating canals
- 73 Systems of irrigation
 Plans etc.
- .74 Measure and distribution of water
- 75 Cost of water
- .76
- 77
- .78 Machinery
- 79 Methods of conserving moisture
 Mulching
 See also 631.586 Dry farming 631.8 Fertilizers amendment of soils
- .8 **Fertilizers**
- 81 History, nature, uses
- 811 Nutrition of plants, necessary principles
- 812 Production, preparation, collection conservation
- 813 Composition
- 814 Loss of fertilizing principles
- 815 Economic value
- 816 Use Methods of application and distribution
- 817 Purchase Transport Cost
- .818 Frauds Adulterations Control, legislation, inspection analysis
- 819 History Divided like 930-999

Any special fertilizer may be subdivided like 631.81 etc.
 631.8325 Economic value of bone as a fertilizer
 631.8733 Compost on of seaweed

- 631.82 Mineral amendments
 821 Lime, gypsum, plaster
 822 Marl
 825 Sulfate of iron
 83 Potash fertilizers
 831 Wood ashes, vegetable ashes, burning turf
 832 Chlorids
 833 Sulfates
 84 Nitrogen fertilizers
 841 Ammonium salts
 842 Nitrates
 1 Calcium cyanamid
 5 Sewage
 843 Animal industry residues skin etc
 Slaughter house refuse See also 631.852 Bone
 844 Fish
 845 Blood
 846 Tankage
 847 Vegetable nitrogen fertilizers
 Cotton seed meal, castor beans pomace
 1 Nitrifying crops
 2 Soil inoculation Bacteria Nitrification
 For soil conditions see 631.46 He a class introduction of bacteria to
 improve the soil Difference same as between 631.45 Soil fertility and
 631.8 Fertilizers
 848 Azotin ammonite etc
 85 Phosphoric acid
 851 Natural rock
 852 Bone
 853 Slags
 854 Guano
 855 Superphosphates
 86 Farmyard and stable manures etc
 Subdivided like 636 etc 631.862 Cow manure
 87 Vegetable manures
 871 Muck
 872 Leaves
 873 Seaweed
 874 Green manures
 875 Vegetable compost
 876 Residue from vegetable industries
 88 Fertilizer experiments
 9 Climate, roads etc

632 Hindrances Protection

Including blights, pests and insects injurious to either plants or animals, but material relating to diseases of animals is better classed in 619 or 636.089 and may attract all matter specially relating to animals.

- .1 Elemental destruction Protection
- .11 Low temperature frost freezing
 - 111 Methods of protection
 - 112 Warnings weather bureau thermometers
 - 113 Covering
 - 114 Artificial clouds
 - .115 Fires
 - 116
- .117
- 118 Repairing damages
- 12 Excessive heat and drouth
- 13
- 14 Hail
- 15 Lightning
- 16 Wind and rain
- 17 Floods, inundations
- 18 Fires forest and prairie
- 19 Other destructive agents
 - Earthquakes fumes gas etc.
- .2 Galls Cecidiology
 - No subdivision at present
- .3 Bacteria and bacterial diseases
 - No subdivision at present
- .4 Fungi
 - Divided like 589.2 See also 632.9
- .5 Parasitic and injurious plants
 - .58 Weeds
 - .59 Plants injurious to animals

- 632 6 **Injurious animals**
 Divided like 590 but class injurious insects in 632 7 instead of 632 657
- 7 **Injurious insects**
 Divided like 595 7 See also 632 9
- 71 **Thysanura, etc**
 Bristle tails or silver fish spring tails
- 72 **Orthoptera**
 Grasshoppers locusts roaches earwigs, leaf insects See also 632 72 for leaf hoppers
- 73 **Pseudoneuroptera**
 Dragon flies thrips
- 74 **Neuroptera**
 Lacewing flies caddis flies
- 75 **Rhynchotha hemiptera**
 Aphis (plant lice) biting lice cicada, scale insects chinch bug squash bug mealy bug leaf hoppers See also 632 72 for other leaf insects
- 76 **Coleoptera**
 Beetles flat-headed and round-headed borers weevils wire worms
- 77 **Diptera**
 Flies mosquitoes gnats midges fleas root maggots Hessian fly
- 78 **Lepidoptera**
 Butterflies moths caterpillars army worm
- 79 **Hymenoptera**
 Ants bees wasps saw gall and ichneumon flies
- 8 **Diseases and injuries**
 Other than covered by 632 2-7
- 9 **Means of protection**
 Other than covered by 632 1 e. g. netting and covers screens gards scarecrows
- 93 **Plant quarantine**
- 94 **Methods and apparatus**
 Spraying dusting fumigating
- 95 **Preparations and materials**
- 951 **Insecticides**
 Works on insecticides for protection against special insects or insect groups may be classed in subdivisions of 632 7
- 952 **Fungicides**
 Works on fungicides for protection against special fungi or fungi groups may be classed in subdivisions of 632 4
- 953 **Antiseptics**
- 96 **Natural enemies of pests**
 952-9 may be subdivided like 592-9 For natural enemies not included in 592-9 use 632 961 divided like main classification

633 Field crops: grains, grasses, fibers, etc.

SUMMARY

- 1 Cereals grains
- 2 Grasses
- 3 Legumes
- 4 Root crops
- 5 Fiber crops
- 6 Sugar plants and starch
- 7 Alkaloid plants
- 8 Perfumes spices condiments etc
- 9 Other plants

.1 Cereals Grains

- 11 Wheat
- 12 Buckwheat
- 13 Oats
- 14 Rye
- 15 Corn, maize
- 16 Barley
- 17 Millet, sorghum etc

171 Millet

172 Panic grass

173 Prosos

174 Sorghum

For sweet sorghum see 633.62

175 Broom corn

176 Shallu

177 Kafir milo maize

White kafir blackbul kafir red kafir

178 Durra Jerusalem corn

Yellow milo brown durra white durra rice corn, white Egyptian corn, Egyptian corn

18 Rice

19 Other

.2 Forage crops grasses

Class here general treatises on forage crops Divided according to Hackel

21 Blue grass *Poa*22 Orchard grass *Dactylis*23 Red top bent grass *Agrostis*24 Timothy *Phleum*

25 Cereal grasses Divided like 633.1 Cereals

26 Other cultivated grasses

261 Bermuda grass *Cynodon*262 *Bromus*263 Rye grass *Lolium*264 Fescues *Festuca*265 Oat grass *Arrhenatherum*266 *Paspalum*267 *Phalaris*

.27

633.28

Other grasses

Class here only such grasses as have no specific number
 Divided like Hackel in 633.21-267

.281

Maydeae

Zoysiae

Tristeginae

.282

Andropogoneae

.283

Panicum

.284

Oryzaceae

Phalarideae

.285

Agrostideae

.286

Aveneae

.287

Chlorideae

.288

Festuceae

.289

Hordeae

Bambuseae

.3

Forage crops. legumes, etc.

31

Alfalfa *Medicago*

Black medic but clover

32

Clovers, berseem *Trifolium*

33

Cowpeas *Vigna*

34

Soybean *Glycine*

35

Vetches *Vicia*

36

Peanut *Arachis hypogaea*

See also edible seeds 635.639

361

Sainfoin *Onobrychis*

362

Kidney vetch *Anthyllis*

363

Velvet bean *Mucuna*

364

Japan clover *Lespedeza*

365

Beggar weed *Meibomia* *Desmodium*

366

Sweet clover *Melilotus*

367

Lupin *Lupinus*

37

Other legumes

371

Sophoreae

372

Podalyriae

Genisteae

373

Trifolieae

374

Loteae

375

Psoraleae

Galegeae

376

Hedysareae

377

Dalbergiae

378

Vicieae

379

Phaseoleae

38

39

Other forage crops

Cactus, sunflower

Root crops

These are practically all also classed as vegetables in 635 1 and 2 and for convenience of correspondence the same arrangement is followed here 633 4 divided like 633 1 and 633 49 divided like 635 2

- 41 Beet *Beta vulgaris*
See also 633 63 Sugar beet
- 416 Half sugar mangel
- 417 Mangel and mangel wurzel
- 42 Turnip *Brassica rapa*
- 425 Hybrid turnip
- 426 Rutabaga *Brassica campestris*
- 43 Carrot *Daucus carota*
- 44 Parsnip *Pastinaca sativa*
- 49 Tubers and bulbs
- 491 Potato *Solanum tuberosum*
- 492 Sweet potato *Ipomoea batatas*
- 494 Jerusalem artichoke *Helianthus tuberosus*
- 5 Textile fibers, cordage, plaiting, basket, etc
- 51 Cotton *Gossypium*
- 52 Flax *Linum*
- 53 Hemp *Cannabis*
For other fibers known as hemp see 633 56 57 Brown and Indian hemp are indefinite For true Indian hemp see 633 567
- 54 Jute *Corchorus*
- 55 Ramie China grass *Boehmeria*
- 56 Other soft fibers
- 561 China jute *Abutilon*
- 562 Sunn hemp *Crotalaria*
Benal Bombay Conkanee false Ionkan Madras or Salsette hemp or Travancore flax also incorrectly Dekkan or Ambai hemp Jubbulpore or Jabbalpur hemp
- 563 Ambai or Dekkan hemp *Hibiscus*
Kanoff and Gumbo hemp Dekkan hemp also known in market as Benipatam jute
- 564 Majagua *Paritium* *Hibiscus tiliaceus*
- 565 Olona *Touchardia*
- 566 Colorado river hemp *Sesbania*
- 567 Canada (or Indian) hemp *Apocynum*
True Indian hemp also called black Indian hemp
- 57 Hard fibers
- 571 Manila hemp Abaca *Musa*
- 572 New Zealand hemp *Phormium*
- 573 Mauritius hemp *Furcraea*
- 574 Bowstring hemp *Sansevieria*
- 575 Bromelia fibers
- 576 Pineapple fiber *Ananas*

- 633 577 **Agave fibers**
 1 Sisal, henequen *Agave rigida*
 2 Ixtle, istle, tampico *Agave heteracantha*
 Jaumave istle *Agave lophantha*
 Tula istle *Agave Lecheguilla* also *A. unistata* *A. caerulea*,
 A. Kercharius
 Palma istle *Palma samandoca* *Samuela carmerosana* *Palma pita*,
 Yucca treuleana
 3 Manila maguey *Agave Cantula*
 4 Aloe fiber
 5 Maguey fiber *Agave atrovirens*, *A. collina*, *A. Polosina*,
 A. Tequilana, *A. vivipara*
 6 Zapupe "zapupe verde", 'zapupe azul"
 58 **Fibers for plaiting basket and wicker work, ruf weaving**
 581 Coir, coconut fiber *Cocos*
 582 Raffia *Raphia*
 583 Esparto sparto gras, alfa, halfa *Stipa*
 584 **Hat fibers**
 Jip japa plant *Carludovica* Panama hat fibers
 Yaraw or hat palm *Inodes*
 Straw wheat rye barley rice in agricultural aspect better class in 633.1
 585 **Rushes and sedges** *Juncus* *Cyperaceae*
 586 Reeds *Arundo*
 587 Bamboo
 588 Osier, willow *Salix*
 Other woods splints rattan
 59 **Fibers for other industrial uses**
 Filling or stuffing fibers caulking natural fibers Cuba bast etc brush fibers
 broom root paper materials usually better class from agricultural standpoint
 with other uses of the material
 6 **Sugar plants and starch**
 61 Cane *Saccharum*
 62 Sorghum *Andropogon sorghum* Brot *S. vulgare* Linn
 63 Sugar beets *Beta*
 64 Maple *Acer saccharum* Marsh *Acer saccharinum*
 Wangenh
 65 Palm
 66 Other sugar plants
 68 Starch
 Single plants usually better class from agricultural standpoint with other uses
 of these plants e.g. wheat corn rice potatoes etc
 7 **Alkaloidal plants**
 For those chiefly medicinal see 633.88
 71 Tobacco *Nicotiana*
 72 Tea *Camellia thea* Link *Thea* Linn.
 73 Coffee *Coffea*
 74 Cacao, coco, chocolate *Theobroma*
 75 Poppy (opium) *Papaver*
 76 Kola or cola
 77 Maté *Ilex*
 Brazil or Paraguay tea Jesuits tea yerba
 78 Chicory, succory *Cichorium*

- 633 8 **Perfumes, seasonings, etc**
- 81 **Perfumery**
 See also 658 5
- 811 Floral rose jasmin violet
- 812 Herbal lavender rosemary geranium patchouli
- 813 Citrin bergamot
- 814 Woods sandalwood cedar
- 815 Roots orris vetiver
- 816 Balms and gums myrrh benzoin
- 82 **Flavoring**
 See also 635 7 Condimental and sweet herbs
- 821 Vanilla
- 822 Mints *Mentha*
- 823 Wintergreen *Gaultheria*
- 824 Sassafras
- 825 Ginger *Zingiber*
- 83 **Spices**
 See also 664 5
- 831 Allspice
- 832 Cloves
- 833 Cinnamon
- 834 Nutmeg Mace
- 84 **Condiments**
 See also 635 7 Condimental and sweet herbs
- 841 Pepper *Piper*
- 842 Red pepper paprika *Capsicum*
- 843 Chili *Capsicum* specially *c fastigiatum*
- 844 Mustard
- 845 Capers
- 846 Horseradish
- 85 **Oil producing plants**
 Usually better classed from agricultural standpoint with the purpose for which the oil or plant is used
- 86 **Vegetable dyes dye plants**
- 861 Yellow
- 862 Blue
- 863 Red
- 864 Green
- 87 **Tanning material**
 Usually better classed from agricultural standpoint with the tree or plant from which the material is derived
- 871 Sumac Canaigre
- 88 **Medicinal plants**
- 89 **Other**
- 9 **Other field plants**

634 Fruits, orchards, vinyards, forestry

SUMMARY

- 1 Pomaceous fruits
- 2 Drupaceous "
- 3 Citrous "
- 4 Minor fruits
- 5 Nut "
- 6 Palmaceous fruits
- 7 Small fruits
- 8 Grapes
- 9 Forestry

.1 Pomaceous or pome fruits

- 11 Apple *Pyrus malus*
- 12 Crab apple
- 13 Pear *Pyrus*
- 14 Quince *Cydonia*
- 15 Medlar *Mespilus*
- 16 Loquat Japan plum *Eriobotrya Japonica*

.2 Drupaceous or stone fruits *Prunus*

- 21 Apricot *Prunophora*
- 22 Plum *Prunophora*
- 23 Cherry *Cerasus*
- 24 Racemose cherries wild cherry choke cherry padms,
sand cherry
- 25 Peach *Amygdalus* or *Prunus Persica*
- 26 Nectarin (variety)

.3 Citrous fruits orange family, etc

- 31 Orange *Citrus aurantium*
- 32 Varieties
- 321 Trifoliate *C trifoliata*
- 322 Mandarin, tangerine, kid glove orange *C nobilis*
- 323 Grape fruit, pomelo, shaddock *C decumana*
- 324 Kumquat *C Japonica*

33 Citron group *C medica*

- 331 Citron var *genuina*
- 334 Lemon " *limon*
- 337 Lime " *acida* or *limetta*

34 Other

- 341 Glycosmis *G aurantiaca*
- 342 Lime berry bergamot lime *Triphasia trifoliata* or
aurantiola
- 343 White sapota cochil sapota *Casimiroa edulis*
- 36 Moraceous fruits Mulberry family
- 37 Fig *Ficus Carica*
- 38 Mulberry *Morus*
- 39 Bred fruit *Artocarpus incisa*

- 634 4 Minor fruits
- 41 Anonaceous fruits custard apple family
- 411 Sour sop *Anona muricata* or *Asiatica*
- 412 Sweet sop sugar apple *A squamosa*
- 413 Cherimoya Jamaica apple *A cherimolia*
- 414 Pond apple mamon *A glabra* or *laurifolia*
- 415 Custard apple bullock's heart *A reticulata*
- 418 Northern papaw *Asimina triloba*
- 42 Myrtaceous fruits myrtle family
- 421 Guava *Psidium*
- 422 Rose apple jamrosade *Eugenia jambos*
- 423 Surinam cherry Cayenne cherry pitanga *Eugenia uniflora* or *Michelin*
- 425 Passifloraceous fruits pass on flower family
- 43 Sapotaceous fruits star apple or sapodilla family
- 431 Sapodilla naseberry *Achras sapota*
- 432 Marmalade tree or plum *Mammea sapota* *Lucuma mammosa*
- 433 Star apple *Chrysophyllum Camito*
- 44 Anacardiaceous fruits cashew family
- 441 Mango *Mangifera Indica*
- 442 Jew plum Pomme Cythere sweet Otaheite apple *Spondias dulcis*
- 443 Spanish plum *Spondias purpurea*
- 45 Ebenaceous fruits ebony family
- 451 Kaki Japan persimmon *Diospyros Kaki*
- 452 Persimmon *D virginiana*
- 46 Leguminous fruits bean family
- 461 Tamarind *Tamarindus Indica*
- 462 St Johns bred carob karoub algaroba *Ceratonia siliqua*
- 5 Nut fruits Nuciculture
- For wild nut trees see 634 9
- 51 Walnut *Juglans*
- 511 Persian or English walnut *J regia*
- 512 Black walnut *J nigra*
- 513 Japan walnut *J Sieboldiana*
- 518 Butternut white walnut *J cinerea*
- 52 Hickory nut *Hicoria*
- 521 Pecan *H pecan*
- 522 Shagbark or little shagbark hickory *H ovata*
- 523 Big or bottom shagbark hickory *H laciniata*
- 524 Pignut *H glabra*

- 634 53 Chestnut *Castanea*
 531 European chestnut *C. sativa* or *vesca*
 532 American chestnut *C. Americana*
 533 Japan chestnut *C. crenata* or *Japonica*
 537 Chinkapin *C. pumila*
 54 Filbert hazelnut cobnut *Corylus*
 55 Almond *Prunus*
 551 Almond *P. amygdalus*
 552 Russian almond *P. nana*
 555 Tropical almond *Terminalia Catappa*
 57 Miscellaneous nuts
 571 Litchi, Leechee *Nephelium Litchi*
 572 Ginkgo *G. biloba*
 573 Cashew *Anacardium occidentale*
 574 Pistachio *Pistacia vera*
 575 Brazil *Bertholletia excelsa*
 58 Peanuts *Arachis hypogaea*
 Better class 635 659
- .6 Palmaceous fruits
 Palm family and miscellaneous tree fruits
 61 Coconut coco palm *Cocos nucifera*
 62 Date palm *Phoenix dactylifera*
 63 Olive *Olea Europea*
 64 Pomegranate *Punica granatum*
 651 Papaw melon papaw melon zapote *Carica*
 652 Spanish lime Genip *Melicocca bijuga*
 653 Alligator or Avocado pear *Persea gratissima*
 Agave, mescal, pincas & butter
 654 Mammee apple S Domingo apricot *Mammea Americana*
 661 Hovenia
 662 Jujube *Zizyphus*
 663 Myrica
 664 Seagrape shore grape *Coccoloba uvifera*
 665 Pigeon plum *Coccoloba floridana*
 666 Otaheite gooseberry *Phyllanthus distichus*
 667 Strawberry tree *Arbutus unedo*
 7 Small fruits, bush fruits and herblike fruits
 Table berries
 71 Rubaceous, cane or bramble fruits *Rubus*
 711 Raspberries
 1 European 2 Black cap 3 Red
 712 Oriental raspberries wineberry, Japanese wineberry
 713 Blackberry
 714 Loganberry
 717 Dewberry
 1 Northern 2 Southern 3 Pacific

DECIMAL CLASIFICATION

634 72	Ribaceous fruits	Groselles	<i>Ribes</i>
721	Currants		
722	Garden or common currant	<i>R rubrum</i>	
723	Black currant		
1	European	<i>R. nigrum</i>	
2	American	<i>R. Americanum</i>	
3	California	<i>R. bracteosum</i>	
724	Buffalo, Missouri, flowering or golden currant	<i>R. aureum</i>	
725	Gooseberry		
726	European	<i>R. grossularia</i>	
727	American	<i>R. oxycanthoides</i>	
73	Huckleberry, blueberry, etc		
731	Blue tangleberry or dangleberry	<i>Gaylussacia frondosa</i>	
732	Black huckleberry	<i>G. resinosa</i>	
734	Low or dwarf blueberry	<i>Vaccinium Pennsylvanicum</i>	
735	Canadian blueberry	<i>V. Canadense</i>	
736	Low or pale blueberry	<i>V. vacillans</i>	
737	Swamp blueberry, high huckleberry	<i>V. corymbosum</i>	
74	Miscellaneous bush fruits		
741	Juneberry	<i>Amelanchier</i>	
742	Buffalo berry	<i>Lepargyrea argentea</i>	<i>Shepherdia argentea</i>
743	Goumi	<i>Elaeagnus longipes</i> or <i>multiflora</i>	
744	Caraunda	Christ's thorn	<i>Carissa Carandas</i>
745	Cranberry bush, high or tree cranberry	<i>Viburnum opulus</i>	
746	Barberry	<i>Berberis</i>	
747	Elderberry		
75	Strawberry	<i>Fragaria</i>	
751	Garden strawberry, pine strawberry	<i>F. chiloensis</i>	
752	Hautbois strawberry	<i>F. moschata</i>	
753	Alpin and perpetual strawberry	<i>F. vesca</i>	
754	Scarlet or Virginia strawberry	<i>F. Virginiana</i>	
76	Cranberry	<i>Vaccinium macrocarpum</i> , etc	
77	Nonwoody or herblike fruits		
771	Musaceous fruits	<i>Musa</i>	
772	Banana	<i>Musa sapientum</i>	
773	Plantain banana, cooking banana, Adam's fig var	<i>paradisaca</i>	
774	Pineapple	<i>Ananas sativus</i>	
775	Cactaceous fruits		
1	Prickly pear, tuna	<i>Opuntia tuna</i>	
4	Indian fig	<i>Opuntia ficus Indica</i>	
7	Barbados gooseberry, lemon vine, blad apple	<i>Pereskia aculeata</i>	
776	Miscellaneous herblike fruits		
1	Cyphomandra, tree tomato	<i>Cyphomandra betacea</i>	
2	Ceriman	<i>Monstera deliciosa</i>	

- 634 8 Grapes Vinyards Viticulture
 Form divisions 01-09 may be used as under 634 9 Forestry
- 81 General questions
 Divided like 631
- 82 Hindrances Blights Pests
 Divided like 632
- 83 Ampelography grape botany Varieties
- 831 Botany
 Divided like 581
- 835 Inheritance degeneracy etc
 Domestication of the grape
- 09 Hybrids
- 092 Natural or accidental
- 093 Artificial
- 094 Direct bearers or producers
 Culture without grafting and spraying
- 836 Varieties
- 2 By time or season
 Precocious early late
- 3 By climate or latitude
 Northern olive belt orange belt tropical
- 4 By soil
 Clay limestone
- 5 By form of fruit
 Round oblong irregular
- 6 By color of fruit
 2 White 4 Red 6 Black or blue
- 7 Resistant varieties
- 72 Phylloxera resistant
- 73 Mildew resistant
- 76 Varieties resisting the elements
 2 Frost 4 Sun
- 84 American species and stocks native
- 841 General questions
- 09 Hybrids originating or developed in America
 For general works only Class a special hybrid with the wilder of its parent stocks
- 091 Americo-American hybrids
- 094-099 Vinifera American hybrids
 Divided by the number for the country like 940-999 e.g. British American hybrids 634 8410942
- 842 Euvites
- 843 Ripariae Rupestreae
- 1 Ripariae
- 2 Vitis riparia or Vitis vulpina
 River riverbank riverside sweetscented or winter grape
- 209 Hybrids
 Bacchus, Berckmans Canada Clevee Clinton Elva
 Empire State Etta Faith Grein golden Marion Montefiore Noah Opo to Peabody Taylor or Bullitt
- 3 Vitis rubra
 Red or cat grape

DECIMAL CLASSIFICATION

634 8435	Rupestreae
0	Vitis rupestris Beach bush mountain, rock, sand or sugar grape
7	Vitis monticola Sweet mountain grape
8	Vitis Arizonica Canyon grape
844	Cinerascentae
1	Vitis berlandieri Fall little mountain, mountain Spanish or winter grape
3	Vitis cinerea Ashy downy or sweet winter grape
5	Vitis cordifolia or hart leaved vitis Chicken fox frost possum raccoon true forest or winter grape
845	Aestivalae
1	Vitis aestivalis Blue bunch chicken duck shot little pigeon, summer or swamp grape
109	Hybrids Cynthiana gold-crown Norton Norton's Virginia Onferdonk or Ozark
2	Vitis aestivalis bourquiniana Southern aestivalis Bertrand Croton Cunningham Devereaux Herbemont, Louisiana, Poughkeepsie Lenox Black Spanish Burgundy Warren
3	Vitis bicolor Blue leaf northern or northern summer grape
5	Vitis lincecumii Pinewood post-oak turkey grape
509	Hybrids America Beacon Carman, Fern munson Hasmann Jaeger
846	Labruscoideae
1	Vitis Californica California grape
3	Vitis Caribaea de Candolle
5	Vitis Coriacea Callosa or leather-leaf grape
7	Vitis Candicans Mustang grape
709	Hybrids Belton Gwyn Sanford
847	Labruscae Vitis labrusca Fox, northern fox northern muscadine skunk grape Champ on Chautauqua Colera n Concord Dracut amber Early day Early Ohio Eaton Eucippe Eldorado Hartford Hicks Mosier's, King Lucile Lute McPike Moore early Pocklington Vergennes, Worden Wyoming Wilmington red
09	Hybrids Agawam, Anana, Barry Black eagle Brighton Brilliant, Campbell early Canandaigua Catawba Delaware Diamond Dana Downing Dutchess, Eumelan, Green early Hayes, Herbert, Hercules, Ideal, Iona, Isabella Israella, Ives, Janesville Jefferson, Jessca, Jewel Lady Lady Washington, Landley Martha, Massasoit, Maxatawney Memmac, Mills, Moyer Niagara, Perfect on, Perkins, Prentiss Rebecca, Regal Regua Rochester Rommel, Salem, Senasqua, Triumph, Ulster, Wilder Winchell, Woodruff

AGRICULTURE

- 634 848 Muscadintae
- 1 Vitis rotundifolia
Bull bullace bullet bushy muscadine or southern fox grape
- 109 Hybrids
Eden Flowers, Hopkins James Memory Mish
- 6 Vitis Munsoniana
Bird everbearing or Florida grape Florida mustang grape
- 849 Vitis vinifera in America
" " " " " " " "
- 09 Hybrids
Gaertner Geneva Goethe H dalgo Highland Hybrid franc Ken
ington Othello Secretary Walter
- 85 Other species and stocks
Vitis vinifera is the only Old world species
- 853-859 Stocks by locality D vided like 930-999
- 854 European
- 2 British
209 Hybrids
1 Americo-British hybrids
- 3 German
Affenthaler Burgunder Cabernet Elbling Heunisch Malvas a
Muskateller Orleans Orthlieb Riesling Rufänder St Laurent or
Sundgauer Sauvignon Semillon Sylvaner Traminer Veltimer
- 309 Hybrids
1 Americo-German hybrids
- 36 Austrian
Blatterl Blaufrank sch Blue Portuguese Gutedel Lagrein Laska
Nosiola, Nossara Peverella Red sylvaner Traminer or Fränkischer
Vernatsch, Wildbacher Z erfahndler
- 39 Hungarian
Augster Baccador Bahnt or Kle nwe ss, Honigler Kadarka, Läm
merschwanz Slankamenka Yellow Moster or Furmint
- 4 French
Ambonnay Argenteu l Cabernet Carquebas, Chablis Chambertin
Chasselas Colombard, Folle blanche Gamay Gamay hatif Guercy
Jaquez Loubal Malbec Marsanne Melon Meslier Mondeuse
Moussy Muscadet Pepoul P not P not noir Pouilly Red traminer
Riesling Roussonne St Thierry Sauvignon, Semillon Sylvaner Tres
sal er Valdgner
- 5 Italian
Agostenga Alcat co B bera Cannajola, Cataratto Dolcedo Grig
nolino Malvo se Marzemino Nebb olo, Negrara Nocera, Schiavone
Teroldego Trebbiano
- 6 Spanish
Alcante or Genache Ferra Lastan, Malvo se Mourvèdre Muscat
d Alexandria Lunenex
- 69 Portuguese
Alvarelhao Bastardo Donzellino Gouve o Sercial, Touriga
- 94 Swiss
Mondeuse
- 855 Asiatic
- 856 African
- 87 Products of vinyards
- 872 Table grapes Culinary grapes
- 873 Raisins
Drying dipping

DECIMAL CLASSIFICATION

634 9283

Organization Regulation

- 32 Preparation of working and planting plans
- 322 Fundamental premises and principles
 - Increment Increase
- 323 Rotation
- 324 Cutting cycle
- 325 Normal forest
- 33 Working plans Blocks
- 332 Surveys forest, timber, planting Forest reconnaissance Collecting data
- 333 Determining treatment methods
- 334 Regulating yield or cut Determining felling budget
- 335 Control and revision of working plans
- 336 Working plans for special areas

4 Finance

- 42 Valuation
 - 422 Economic and mathematic principles
 - 423 Investments and costs in forest production
 - 424 Valuation of entire forests
 - 425 " " forest soil Land values
 - 426 " " timber or growing stock
 - 427 Stumpage values and appraisals
 - 428 Appraisal of damages
- 43 Statics Comparison of values
- 432 Determining forestry profits
- 433 " forest per cent
- 434 Financial tests of treatment methods
- 435 Comparison of forest with agricultural values
- 44 Timber risks and insurance
- 45 " bonds
- 46 Forest taxation
 - Including tax laws

5 Mensuration

- 5 Determining volume of timber products and the r growth and yield
- 52 Determining stand contents
 - 522 Measuring all trees
 - 523 Using sample "
 - 524 " " plots
 - 525 Ocular estimation of timber stands
- 53 Stand growth Stand increment
 - 531 Yield Yield tables Accident yield
 - 532 Permanent sample plots
 - 533 Age determination
 - 534 Diameter growth
 - 535 Height "
 - 536 Volume "
- 54 Standing trees measurement
 - 544 Diameter
 - 545 Height
 - 546 Volume tables

2-5

Species
Subdivided like 634.972 975

547

Taper tables

2-5

Species
Subdivided like 634.972- 975

AGRICULTURE

634 928

- 548 Form factors
- 2-5 Species
 - Subdivided like 634 972-975
- 55 Measurement of feld trees
- 56 " " logs
- 57 " " lumber
- 58 " " other forest products

- 93 Engineering
- 932 Surveying
 - 2 Land surveying
 - 4 Topografic surveying
- 934 Construction engineering Forest improvements
 - 2 Roads
 - 3 Trails
 - 4 Bridges
 - 5 Fences Hedges
 - 6 Bldings
 - 7 Lookout towers Special protectiv works Signaling
 - 77 Hellograf
 - 8 Electric construction
 - 82 Lighting and power lines
 - 86 Telegraf and telephone lines

- 936 Hydraulic engineering
 - Including reservo rs, dams and condits
 - 2 Drainage
 - 3 Irrigation
 - 5 Domestic waterpower development

94 Forest botany

- 942 Dendrology
 - Subd vided like 581 but clas Ecology in 634 646

- 946 Ecology
 - Relation to environment May be divid d like 581 5 except for those topics specially provided for below

- 947 Biologic dendrology
 - Relation of individual trees to environment

- 2 Physiografic factors Site factors
- 22 Light
- 23 Temperature
- 24 Precipitation
 - Floods inundations
- 25 Humidity
- 26 Wind
- 27 Soils
- 273 Soil physics
- 274 " chemistry
- 277 " biology
- 2 Bacteria
- 4 Mycorrhiza

- 28 Water relations
 - Transport on in relat on to temperature humidity water and soil
- 6 Climatic effects Acclimatization and adaptation
- 8 Geographic distribution by species
 - Subdivided like 583 583
 - For geographic distribution by locality see 634 9093-9

DECIMAL CLASSIFICATION

634 977	Mixt forests	2 or more species artificially combined in stands e. g. pine and oak	
978	Conglomerate forests		
98	Forest product utilization		
982	Logging		
2	Economics		
25	Administration		
253	Camp management		
254	Camp equipment		
255	Commissary	Dietary	
256	Sanitation		
257	First aid	Medical data	
258	Veterinary data		
3	Machinery and tools		
4	Log making		
42	Felling		
43	Limbing		
45	Bucking		
5	Transport		
52	Animal		
522	Ground skidding	snaking and	lanchning
523	Wheeling		
524	Trucking		
525	Sled hauling		
526	Trail chuting	Trail sliding	
53	Power		
	Steam	electricity or gas	
532	Skidding and aerial tramways		
534	Logging railroads		
536	Tractors		
54	Water		
542	Rafting		
543	Driving		
545	Fluming and sluicing		
547	Barging		
55	Gravity chutes	Timber slides	
56	Hand logging		
6	Log sorting	Grading	
983	Rough wood products		
	2 Logs	5 Piling	8 Fuel wood
	3 Cross ties	6 Posts	9 Other
	4 Poles	7 Mine timbers	
984	Other lumber by uses	Forest lumber manufacture	
	Lumbering viewpoint only and where affiliated with lumbering industry		
	Lumber manufacture in general sawd and machine products and		
	technic of use are better class in 674		
	2 Box lumber	7 Chemic uses of forest products	
	3 Cooperage lumber	72 Charcoal lumber	
	4 Veneering "	73 Dry distillation lumber	
	5 Shingle and shake lumber	74 Dyewoods	
	6 Excelsior lumber	Including general works involving use of wood, bark twigs foliage roots etc	

- 634 985 **Bark products**
 2 Tanning barks 7 Medical barks
 5 Light-weight barks 8 Basts
- 986 **Saps**
 3 Naval stores
 22 Turpentine
 See also in chemie teknology 665 3
 24 Resin etc
 See also in chemie teknology 668 4
 5 Rubber latex
 See also rubber manufacture 678
 6 Camfor
 7 Food-product saps
 72 Maple sap
 See also 633 64
 9 Other gums and resins
 See also in chemie teknology 668 4
 92 Spruce gum
- 987 **Fruits Seeds Nuts**
 Palm nuts
 For cultivated nut trees (trees receiving individual attention) see 634 5
- 989 **Other forest products**
 1 Foliage
 Pine needles eucalyptus leaves etc
 5 Parasite utilization Abnormalities
 Subdivided like 580
 5127 Galls
 5415 Orchids
 582 Mosses
 8 Wastes
 82 Thinnings
 83 Dry fallen timber
 84 Forest litter Fertilizer Muck
- 99 **Other uses**
 See also 634 92517 Forest policy 715 25 Landscape art
- 993 **Farming**
- 994 **Forest pasture Forest grazing**
 8 Foliage as fodder
- 996 **Hunting and fishing**
 2 Hunting
 5 Fishing
- 997 **Recreation uses**
 Camping and outdoor life Forest hotels and recreation centers
- 998 **Potable water protection**
- 999 **Farm forestry Wood lots**

635 Garden crops; kitchen and market gardening

Vegetable gardening

SUMMARY

- 1 Edible roots including tubers and bulbs
- 2 Tubers and bulbs
- 3 Edible leaves flowers and stems
- 4 Greens pot herbs
- 5 Salads
- 6 Edible seeds and fruits
- 7 Condimental and sweet herbs
- 8 Mushrooms truffles
- 9 Floriculture

.1 Edible roots

.11 Beet

.12 Turnip

Usually a field crop See 633.42

.126 Rutabaga Swedish turnip Turnip rooted cabbage

.127 Navew, French turnip

.128 Celeriac, turnip-rooted celery

.13 Carrot

.136 Turnip rooted chervil

.137 Chicory

Better in 633.78

.14 Parsnip

.15 Radish

.16 Salsify, oyster plant, vegetable oyster

.166 Scorzonera black salsify

.167 Scolymus, Spanish salsify

2 Edible tubers and bulbs

.21 Potato

.22 Sweet potato, Spanish potato batata

.23 Yam

.24 Jerusalem artichoke, topinamber

.25 Onion

.26 Other plants of Allium family

.261 Leek

.262 Garlic

.263 Shallot, scallion

.264 Cibol, Welsh onion (French, ciboule)

.265 Cive, chive

635 3 Edible leaves, flowers and stems

- 31 Asparagus
- 32 Artichoke
- 327 Cardoon chardoon
- 33 Sea kale
- 34 Cabbage
- 346 Kale or borecole
- 347 Collards
- 348 Kohlrabi
- 35 Cauliflower
- 356 Broccoli
- 36 Brussels sprouts
- 4 Greens
- 41 Spinach
- 42 Chard sea kale beet Swiss chard
- 43 Orach French spinach
- 44 Mustard
- 45 Sorrel Dock
- 46 Dandelion Purslane (pusley)
- 48 Rubarb
- 5 Salads

51 Bitter salads

Dandelion. See 635 46
Cardoon " 635 327

- 52 Lettuce *Lactuca sativa*
- 53 Celery *Apium graveolens*
- 54 Chicory or succory *Cichorium intybus*
Also used as pot herb and root
- 55 Endive *Cichorium endivia*

56 Piquant or warm salads

Class any species or variety with its genus e. g. bitter cress and mustard
amara with 635 562

- 561 Water cress *Nasturtium officinale*
- 562 American water cress *Cardamine rotundifolia*
- 563 Garden cress *Lepidium sativum*
- 564 Winter cress *Barbarea vulgaris*
- 565 Swine cress *Senebiera coronopus*
- 566 Indian cress *Tropaeolum majus*

For mustard see 635 44

•57 Neutral salads

Lamb's lettuce corn salad, lettuce

- 635 6 Edible seeds and fruits
- 61 Melons
- 611 Muskmelon cantaloup nutmeg winter, etc.
- 615 Watermelon preserving or ' citron
- 618 Zit kwa wax gourd
Chinese preserving melon, Chinese watermelon
- 62 Squashes
- 621 Summer or bush squashes
Crooknecks scallop o pattypan pineapple
- 622 Fall and winter or longrunning squashes
Canada crookneck, Hubba d
- 623 Vegetable marrow
- 624 Pumpkins
- 627 Luffa rag gourd dishcloth gourd vegetable sponge
- 63 Cucumbers Gherkins Martyn e
- 64 Tomato
- 646 Eggplant guinea squash aubergine
- 647 Physalis husk tomato strawberry tomato
- 648 Okra or gumbo
- 65 Legumes Beans
- 651 Broad bean
- 652 Kidney bean garden snap and string bean, haricots
- 653 Lima or sugar bean
- 654 Dolichos
- 655 Soy or soja bean
See 633 34
- 656 Peas
- 657 Chick pea *Cicer arietinum*
- 658 Lentils *Lens esculenta*
- 659 Other legumes
Peanuts see also for age crops 633 36
- 67 Sweet corn
- 677 Pop corn
- 7 Condimental and sweet herbs
For the regular condiments of commerce see 633 84 and 664 8
- 71 Seasoning leaves and flowers
- 72 Garden mint, spearmint
- 74 Flavoring for pickles vinegar, etc.
Dill, tarragon, samfire costmary
- 75 Seeds for flavoring
Anise coriander caraway
- 76
- 77
- 78 Garnishes parsley, leaf chervil
- 8 Mushrooms, truffles

635.9 Floriculture

Growing for market and marketing flowers and ornamental plants, and growing them for home park and cemetery embellishment

Clas here works on methods of raising flowers. For study of flowers from artistic side and for their artistic effect in relation to gardens and grounds see 716.2 For botanic treatment see 580

01-09 may be used as under 634.9 Forestry

.909 History and general local treatment

Divided like 930-999

Clas descriptions of individual flower gardens in 712.6 and 716.2

.91 Economics and operations

Divide like 631

.92 Hindrances

Divide like 631

.93 Plants by life duration Species

Clas here general works on herbaceous plants

Clas under subdivisions of .93 all works on *individual* flowering plants except trees (see 635.977) using the later headings which treat floriculture from other points of view e.g. bulbs potted plants greenhouse plants (under several of which a single plant might appropriately appear) only for works treating the distinctive feature in a general way or including several species which would botanically be clas under various numbers

931 Annuals and biennials

2 Resistance to cold

22 Tender

24 Half hardy

26 Hardy

932 Perennials

See note under 635.933-939

2 Resistance to cold

Subdivided like 635.9312

933-939 Species etc

Divided like 583-589 It is strongly recommended that all individual families genera and species (except trees see 635.977) be clas here but if preferred those which are exclusively either annuals and biennials or perennials may be clas in 635.931 and .932 subdivided by 3-9 and further subdivided like 583-589

94 Plants by means of propagation

Under each of the following subdivisions Resistance to cold may be expressed by 2 further subdivided like 635.9312

942 Seeds

.944 Bulbs, tubers etc

946 Runners, layers

948 Cuttings, slips etc

95 Special conditions of growth

952 Climate

2 Tropic plants Tender plants

3 Temperate zone plants

4 Arctic plants

6 Alpine or mountain plants

8 Effect of climate on species

Subdivided like 580

9 Effect of climate by locality

Subdivided like 940-999

DECIMAL CLASSIFICATION

635 953	Season and hour of flowering	
2	Spring	
3	Summer	
4	Autumn	
5	Winter	
7	Morning	
8	Evening	
954	Environment as related to light	
2	Sunny	
4	Shady	
955	Soil	
	2 For moist soils	5 For poor soils
	3 " dry "	6 " chalky "
	4 " rich "	7 " sandy "
96	Purpose	
962	Beds	
963	Borders or edging	
964	Grass and lawn flowers	
965	Growing plants	Potted plants
	House plants	
2	In pots, vases, water etc.	
22	In soil and pots	
222	" fiber and vases	
223	" water and pebbles	
224	" moss	
225	As air plants	
226	Flowering plants	
23	Vines	
24	Foliage plants, ferns etc	
26	Bulbs, tubers etc	
28	For temporary decoration	
3	Weddings receptions church services etc.	
	Flower shows	Exhibits
5	Cut flowers	
.966	General use	
2	Decoration	
3	Weddings receptions church services etc.	
	Floral designs	
4	Funerals etc	
	Flower shows	Exhibits
5	Special kinds of gardens	
967	Rock plants	Alpine plants
2	Water gardens	Aquatic plants
4	Lake and brookside plants	
	Woodland (wild flower) gardens	
6	Other purposes	
968	Nurseries	
969	Seed production	
9		

- 635 97 Other groupings
- 972 Oldfashioned plants
- 973 Everlastings
- 974 Climbing plants
 - 2 Vines
 - 22 Annual vines
 - 23 Hardy "
 - 8 By uses
 - Ground coverers, wall coverers etc
- 975 Foliage
 - For grasses see 635 9349
 - 2 Colord
 - 3 Green
 - For cactuses see 635 933471
 - 32 Ferns
 - 328 By uses
 - Living room ferns (pot ferns, basket ferns) stove ferns conserva-
tory and greenhouse ferns
 - 34 Asparagus
 - 36 Mosses
- 976 Shrubs Hedges
 - 3 Deciduous shrubs
 - 32 Flowering
 - 33 Ornamental fruiting
 - 34 " foliage
 - 35 Climbing
 - 635 976352-4 may be used like 635 97632-4
 - 4 Evergreen
 - May be subdivided like 635 9763
 - 5 Conservatory shrubs
 - 53 Deciduous
 - 54 Evergreen
 - 8 Hedges
 - 83 Deciduous
 - 84 Evergreen
- 977 Trees
 - Class here commercial raising of ornamental trees For their use see land
scape gardening 715 25 See also in agriculture 631 537 Nurseries 634
Fruit orchards 634 9 Forestry
 - 3 5 Species
 - Divided like 583-585
 - 6 Deciduous
 - 635 97762-4 may be used like 635 97632-4
 - 7 Evergreen
 - 8 Shade trees
 - 83 Deciduous
 - 84 Evergreen

635 978	By physical effects	
2	Color	
22	White	
23	Violet or purple	
24	Blue	
25	Yellow	
26	Orange	
27	Red	
28	Pink	
29	Other colors	
295	Brown	
3	Odor	
32	Fragrant	
33	Malodorous	
4	Feeling	
44	Roughleavd	
45	Irritant	
98	Under glas	
982	Greenhouses	Conservatories
983	Hotbeds	
984	Cold frames	
985	Bel glasses	
987	Forcing	

636 Domestic animals Live stock

08 Zootechny

The breeding and keeping of animals in domestication

SUMMARY

- .051 Selection Economics
- .052 Formation of stock, races breeding
- .053 Care
- .054 Feeding
- .055 Food general questions
- .056 Foods divided like 633
- .057 Other foods
- .058 Utilization and training
- .059 Hygiene Diseases

,081 Selection Economics, etc.

1 Selecting and acquiring stock

II Capture

Of wild animals and of domesticated animals allowed to run wild
Round up " of western ranches

III Capture by snares, traps, nets, etc.

II2 " " weapons, guns, etc.

113 " " help of other animals, dogs, horses, ferrets,
 hawks, etc.

12	Purchase	Original cost
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12	Exchange	Original cost
13	Barter	Horse trade

13	Barter	Trade made	
14	Standards of excellence	Points	

14	Soundness	Imperfections	Blemishes
----	-----------	---------------	-----------

16 Estimating age

2 Brands and branding and other marks of ownership

28 Catalogs of brands

3	Stock farms	Ranches
---	-------------	---------

31 Descriptions of individual farms

Alfabetico

6 Finances and accounts

7 Expenses

71	Supplies, food, etc
----	---------------------

73 Wages

75 Insurance

8 Returns, yield, profit

81 Weight tables

87 Stock farm catalogs

88 Catalogs of sales

636 082

Formation of stock

Races breeding heredity etc

- 1 Character of herd, flock, colony, etc
- 11 Species, races, breeds, strains, heredity, variation
- 2 Herd books, stud books, flock books, etc
- 3 Composition of herd, flock, colony
 - Including notes and articles about the different kinds
- 31 Male
- 32 Female
- 33 Neuter (of bees)
- 34 Castrated animals
- 342 Males
- 345 Females
- 35 Young animals
 - 352 Males
 - 355 Females
- 36 Culling

Breeding Reproduction

- 41 Breeding in and in
 - Line breeding Animals closely related by blood
- 43 Cross breeding
- 431 Hybrid
 - Individuals of different species
- 432 Métissage
 - Individuals of different races
- 44 Choice of parents
- 45 Generation
 - 451 Sexual excitement heat, rut
 - 452 Sex control
 - 453 Sexual union
 - 454 Impregnation Sterility
 - Fusion of male and female element
 - 455 Gestation
 - 456 Birth
 - Abort on
- 46 Laying of eggs
- 461 Nests
- 47 Incubation Hatching
- 471 Natural
- 474 Artificial Incubators

.083

Care of animals

- 1 Housing
 - Stalls boxstalls pens nests
- 2 Care of stables or houses
 - Cleanliness bedding
- 3 Care of animals
 - Grooming of ppeing
- 37 Special care of young
 - Brooders 636 508337
- 4 Care of feet Shoeing
- 5 Care of animals outdoors
 - Shepherds watch dogs, etc Protection from beasts of prey pumas, foxes, etc
- 6 Acclimatization
 - 61 Protection from cold blankets
 - 62 " " heat
 - 66 " " wind and rain
- 7 Care of harnesses and accouterments

- 636 084 Feeding
- 1 Feeding of young
 - 11 Suckling
 - 12 Weaning
 - 13 Hand or artificial feeding
 - 2 General methods of feeding
 - 21 In stables, houses, etc
 - 22 In pasture Grazing
 - 23 Mountain pastures, forests ranches ranges
 - 31 Special provisions water, salt, etc
 - 4 Ordinary, rational feeding
 - 41 Rations Amount and proportion
 - 42 Kind and times of feeding
 - 45 Substitutions Variety
 - 5 Feeding for special purposes
 - 51 For breeding time
 - 52 For increast production milk, eggs etc
 - 53 For work
 - 55 For fattening
 - 56 Forced feeding cramming
- 085 Food
- Standards
 - 1 Composition
 - Analysis
 - 2 Nutritiv value
 - Digestibility fuel value
 - 3 Food experiments
 - 4 Commercial value
 - 5 Different kinds of food
 - For individual foods see 636 086 and 087
 - 51 Fresh or green fodder
 - 52 Silage
 - 54 Dry fodder
 - Hay straw grains
 - 57 Prepared foods
 - Industrial residues Cakes of oily grain or fruit
 - 6 Preparation and use of food
 - 9 Adulterations of foods for animals
- 086 Foods
- Divided like 633
 - 13 Oats
 - 15 Corn
 - 2 Forage crops, hay
 - 25 Straw
 - 255 Cornstalks
 - 32 Clover
 - 41 Beets

- 636 087 Other foods
- 4 Fruits
Divided like 634
- 5 Garden crops
Divided like 635 Use only for material not covered by subdivisions of 633
- 6 Animal food
- 7 Mineral foods, salt, condiments
- .088 Utilization and training of animals
- 1 For breeding purposes
- 2 For work
- 3 For production of food meat, eggs, etc
- 4 For animal products
Wool, skins, fethers etc
- 6 Breaking, training etc
- 61 To saddle, etc for carrying purposes
- 62 To harness, for work
- 66 Special training
- 661 Carrying messages
- 662 Hunting
- .089 Hygiene, diseases, etc
Hygiene is usually better class 614.9 and Diseases 619
636 0891-0898 may be subdivided like 611-618
- 1 Anatomy
- 2 Physiology
- 3 Hygiene
- 5 Remedies, materia medica
- 6 Diseases Diagnosis
- 7 Surgical operations
- .1 Horse
636 103 may be subdivided like 636 08 but utilization is partly provided for under 11-16 below
- 11 Oriental horse
Arabian, Persian, Tartar Turkesh Barb
- 12 Speed horse, race horse, light type, 'hot blooded'
- 121
- 122 English thorobred or running horse
- 127 Other European
- 1 Russian Orloff trotters
- .128 American trotter or pacer
- 1 Morgan
- 13 Saddle horse
Hunter, military (charger cavalry horse, etc.), American saddle Kentucky saddle, cob. park hack palfrey

- 636 14 Coach or carriage horses
 Harness horse
- 142 English coach
 1 Cleveland bay
 2 Yorkshire coach
 3 Hackney
- 143 German coach
 East Prussian or Trakehner East Friesland Rhenish Prussian Mecklenburg Schleswig Hanoverian Oldenburg Holstein
- 144 French coach, 'demusang'
- 145 Italian Corsican
- 15 Draft horse cart horse, heavy type 'cold blooded'
- 152 English
 1 Clydesdale
 2 Suffolk punch or draft
 3 Black or shire draft
- 154 French and Belgian
 1 Norman, Percheron
 2 Ardennais
 3 Boulonnais
 4 Breton
 5 Nivernais
 8 Belgian draft, Flanders dray, Flemish horse
- 158 American draft
 Conestoga
- 16 Ponies
- 161 Ponies for special purposes polo
- 162 Scotch English and Welsh
 1 Shetland
 2 Galloway
 4 Exmoor
 5 Dartmoor
 6 New Forest
 9 Welsh
- 168 American
 Mustang bronco Indian pony
- 18 Allied animals
- 182 Ass jackass, donkey, burro
 Asiatic Catalonian Italian Maltese
- 183 Mule hinny
- 184 Zebra quagga etc
- 185 Zebrule, zebroid

DECIMAL CLASSIFICATION

636.2	Cattle	Greater ruminants
		May be divided like 636.081-089 but for utilization use .21
.21	Uses	
		Subdivide like 636.088 See note above
.22	English cattle	
.221	Old stocks	
		Forest cattle, wild white, Chillingham
.222	Beef breeds	
1	Short horns	
2	Durham	
3	Teeswater	
4	Lincolnshire	
5	Red shorthorn	
6	Hereford whitelaced	
7	Polled Hereford	
8	Sussex	
.223	Scotch, Welsh and Irish beef breeds	
1	Aberdeen Angus	
		Angus doddle Buchan humbles polled Aberceen
2	Galloway	
		Blue gray
3	West highland: Kyles	
6	Black Welsh	
.224	Dairy breeds	
1	Channel island cattle	
2	Alderney	
3	Jersey	
4	Guernsey	
.225	Scotch and Irish dairy	
1	Ayrshire	
2	Dunlop	
3	Cunningham	
6	Kerry	
		Dexter Kerry, Dexter shorthorn
.226	Dual purpose breeds	
1	Devon	
		North Devon, Rubies, South Devon
2	South Hams	
		Hammers
3	Polled Durham	
4	Red polled	
5	Norfolk	
6	Suffolk	
7	East Anglian	
8	Longhorn (English)	
		Dahley

AGRICULTURE

- 636.23 German, Dutch and Swiss cattle
 - .232 Beef breeds
 - .234 Dairy breeds
 - 1 Holstein
 - 2 Holstein Friesian
 - 3 East Friesian
 - 4 Oldenburg
 - .235 Dutch
 - 1 Dutch Friesian, Netherland, North Holland
 - 4 Dutch belted. Lakenfelds, Lakenvelders, Veldlakers
 - 6 Danish
 - 7 Jutland
 - .236 Dual purpose
 - .237 Swiss
 - 1 Brown Swiss
 - 2 Simmental
 - 3 Bernese
 - 4 Spotted race
 - .24 French and Belgian
 - .242 Beef
 - .244 Dairy
 - 1 Breton, Brittany
 - .245 Belgian dairy
 - 1 Flamande, Flemish
 - 2 Rosenstein
 - .246 Dual purpose
 - 1 Norman
 - 2 Cotentin
 - .27 Other European
 - .271 Russian
 - Kolmogorian
 - .28 Other countries
 - .282 American beef breed
 - 1 Longhorn, Texas steer
 - .283 American dairy breed
 - 1 American Holderness, Holderness
 - 2 French Canadian, Quebec Jersey
 - .29 Allied animals
 - .291 Brahmin sacred cattle, zebu
 - .292 Bison family
 - 1 Bison; American buffalo
 - 2 Cattalo
 - Hybrid of bison and cow
 - 3 European bison

- 636 293 Other bovidae
- 1 Bovinae
 Clas here general works on bovinæ unless mainly relating to domestic cattle 636 2 See also 636 291 Brahmin sacred cattle zebu 636 292
 Bison family
- 2 Buffalo or water buffalo *Bubalus*
 Bhains mha ns arna arni (Hindu)
 Moond ng (Sudan)
 Karbo or Karbon (Malay)
 Carabao (Philippines)
- 3 Yak
- 4 Gayal, gaur
- 5 Musk ox
- 7 Rocky mountain goat
- 8 Antelope
- 294 Deer, reindeer
- 295 Camel Arabian, Bactrian, dromedary
- 296 Other camelidae. lama llama alpaca
- .3 Sheep, goats Smaller ruminants
 May be divided like 636 681 689 but for utilization use 31
- .31 Uses
 Subdivide like 636 688 See note above
- 32 English breeds
- .321 Longwool breeds (coarse wool)
- 1 Cotswold
- 2 Leicester
 English Leicester New Leicester or Dishley Bakewell's Leicester
- 3 Border Leicester
 Halfbred or Leicester Cheviot or Cheviot Leicester or Upland Leicester
- 4 Lincoln
- 5 Kent or Romney marsh
- 6 Wensleydale
 Bluefaced Wensleydale Wensleydale longwool Wensleydale blueface,
 Teeswater
- 7 Devon longwool, Southam notts, Bampton notts
- 8 South Devon or South Dum
- 9 Roscommon
- .322
- .323 Shortwool breeds
 Medium wool, middle-wool down sheep mutton sheep
- 1 Southdown, Sussex, Sussex down
 Including Underhill and Upperdown
- 2 Hampshire down, improved Hampshire down, Wiltshire brook,
 Berkshire knot, Wiltshire horned
- 3 Dorset down or West country down
- 4 Oxford or Oxfordshire down
 Before 1859 called Down-Cotswold
- 5 Suffolk down, old Norfolk, horned Norfolk
- 6 Shropshire down, Morfe common
- .3241 Dorset and Somerset horn
- 2 Ryeland or Lempster
- 3 Clun Forest, Wicklow (Irish)
- 4 Kerry Hill (Irish)
- 5 Radnor

636 325	Mountain breeds
1	Cheviot
2	Blackfaced
	Scotch blackface or blackfaced Scotch Linton Forest Lammermuir Tweeddale blackfaced highland
3	Herdwick
4	Lonk or Lank Lancashire blackfaced
5	Penistone
6	Limestone, Limestone Crag
7	Ruf Swaledale
8	Shetland, Orkney, Hebrides
.3261	Derbyshire gritstone
2	Dartmoor
3	Exmoor Exmoor horn
4	
5	
6	Cornwall
7	Welsh mountain
33	German and Dutch breeds Swiss
.331	Low country or marsh sheep
	Hornless and short tailed
1	Dutch Texel
4	Friesian
	East and North Friesland, Ederstedt Ditmarsh, Butjading, Zealand
7	Northeast German
	Vaga Elbingen
333	Upland sheep heath sheep (German heidschnucken)
1	Pomeranian or Polish, Mecklenburg (Spiegelschaf)
2	Hessian
3	Bavarian or Zaupel Franconian (Frankenschaf)
4	Rhine
5	Hanoverian Munster
6	Styrian or Carinthian Swiss
34	French and Flemish breeds
342	Central plateau breeds
1	Auvergne
2	
3	La Marche
4	
5	Limousin
6	
7	Saintonge
.344	Loire basin and north France breeds
1	Berrichonne (Crevant Cher Indre)
2	Solognote (Sologne)
3	Comtoise (Franche-Comté)
4	Ardenne (Poitou)
5	Percheron (Perche)
6	Angevin (Anjou)
7	Cotentin
8	Bretagne
9	Charmoise (Loir et Cher)

- 636 346 Pyreneese breeds
- 1 Basquaise
 - 2 Béarnaise
 - 3 Landaise
 - 4 Gasconne
 - 5 Lauraguaise
 - 6 Lot
 - 7 Albigeois
 - 8 Aveyron
- Varieties Larzac Lacaune Olemps Cevennes Cause
- 9 Barbarins
- Varieties Millery Lahune Marthold
- 35 Italian
- Neapolitan long broad or fat tailed Bergamasker, Paduan, Italian or Sardinian, mountain
- 36 Spanish breeds Merinos, etc
- 361 Escorial or Estremadura
- 362 Guadalupe
- 363 Pavlar
- 364 Infantado
- 365 Nigretti
- 366 Other Spanish
- Aguirre Atwood, Montares Leonese Churra
- 367 Other European merino breeds
- 2 British
 - 3 German
 - 31 Prussian
 - 32 Hanoverian
 - 33 Saxon
 - 34 Silesian
 - 37 Hungarian
 - 4 French Rambouillet
 - 8 Danish, Swedish, etc
- 368 Other merino breeds
- 1 American
 - 2 Delaine
 - 3
 - 4 Australian
- 37 Other European sheep
- 371 Russian
- 372 North Europe Scandinavia, Iceland, Faroe islands
- Ovis brachyura borealis
- 373 Southeast Europe
- Long tail, broad or fat tail Macedonian or Clementine
- Long tail and small tail mixed wool Cretan, Macedonian, Wallachian, Moldavian or Hungarian

- 636 38 Other countries
 385 Asiatic
 Short tail horned Tartar Kalmuck, Kinghir Buriat fat rump (ovis steatopyga) stump tail (ovis brachyoceros) See also 636 386
 Short tail hornless Mecca fat rump Chinese (ongtischaf) Persian
 Long tail broad or fat tail dumba (ovis platyura) Syrian Anatolian, Karamanian or Levant Persian Bokhara Karakul
 Arabian or Bedouin
 Kabardian or Circassian
 386 African sheep -
 Long tail broad or fat tail Egyptian Tunisian Berber or Algerian
 Long and small tail heavy fleece Buschman (Nubian) dinka (sheep with manes ovis africana) high leg or Guinea sheep (Kongo) Morvan (longipes) L'byan or Pezzan Zulu or Angola
 Stump tail (ovis brachyoceros) See also 636 385
 39 Goats
 May be divided like 636 087 089 but for utilization use 391
 391 Uses
 Subdivide like 636 083 See note above
 392 British goats
 Irish goat longhaired
 English goat shorthaired
 393 German and Austrian goats
 Harz goats Haterwald, Hungen Langensalza, Saxony Schwarzwald, Starkenburg Westphalian Wesenthal
 6 Swiss goats
 Alpine common goat
 Blackneck Valais Schwarzhals or Schwarztal Glacé saddle Guggsberg
 7 Toggenburg
 8 Appenzell or flat headed
 9 Saanen or Sarnen, Gessenay or Gassenay
 394 French goats Tarentaise
 395 Italian goats Maltese
 396 Spanish goats
 Hornless Granada, Malaga
 Shorthaired reds Spanish Maltese
 397 Other European goats
 398 Other goats
 1 American goats
 5 Asiatic goats
 Tibet (China) Angora (Persia) Syrian
 54 India
 Kashmir (or shawl Tibet) Nepal (variety of Nubian) Suats, Tahr (slaggy brown Himalayan goat)
 6 African goats
 Abyssinian (or Nubian) Guinea
 62 Egypt
 Egyptian (or Nile) Theban, Zariba

636.4 Swine

May be divided like 636 081-089 but for utilization use 41

.41 Uses

Subdivide like 636 088 (see note above) further subdividing .413 as follows
4132 Bacon breeds 4133 Lard breeds

42 English breeds

421 Small colored breeds

Use also for small breeds in general

1 Essex

2 Sussex

3 Suffolk

422 Small white breeds

1 Windsor

2 Small Yorkshire

3 Coleshill

423 Large colored breeds

Use also for large breeds in general

424 Large white breeds

1 Yorkshire

2 Lancashire

3 Cumberland

4 New Leicester

5 Lincolnshire

6 Suffolk

426 Medium colored breeds

Use also for medium breeds in general

1 Black Berkshire

2 Red Tamworth

3 Red Berkshire

427 Medium white breeds

1 Middle Yorkshire

3 " Suffolk

.43 German and Dutch breeds

431 Lowland breeds Southern Germany

Use this also as general number for short-ear swine

Bavarian

Franconian

Halle

Saxian

Düsseltaler

Glanschwein

Luzern

Württemberg

.432 Hungarian short ear

Carpathian Bergschlag

Bakonyer or Bakouner

Szalontaer

433 Western and Northern Germany

Use this also as general number for large-ear Large Polish, Measner

.434 German marsh swine, large ear

Danish islands

Holland

Mecklenburg

Schleswig Holstein

Hanover

Jutland

Oldenburg

Westphalia

AGRICULTURE

- 636.44 French
- .441 Large-ear French Celtic breed
 - Northeastern France*
 - Champagne*
 - .443 Northwestern France
 - Breton
 - Norman Augeronne
 - Craonnaise
 - Mancelle
 - Angevin
 - .445 Southwestern France Spanish origin
 - French Perigord
 - Quercy
 - Limousin
 - Gasconne
 - Béarnaise
 - .447 Southeastern France
 - Provence
 - Roussillon
 - Languedoc
 - Bressane
 - .449 Swiss
 - Gruon Bündener
 - .45 Italian, Neapolitan, Maltese, Tuscan, Romagnole
 - .46 Spanish and Portuguese
 - .47 Other European
 - .471 Curly bristles Southeastern Europe
 - .472 Serbian Syrmian
 - Mongolica or Mangalica
 - Curly bristle Hungarian
 - Milos
 - Sumadia or Obrenovics
 - .473 Croatian
 - .474 Rumanian, Moldavian
 - Anatolian
 - Albanian
 - .475 Russian
 - .48 Other countries
 - .481 American breeds
 - .482 Poland-China
 - .483 Red Jersey or Duroc-Jersey
 - .484 Other American
 - 1 Chester white
 - 2 Hampshire
 - 3 Cheshire
 - 4 Victoria
 - 5 Mulefoot Razorback
 - .485 Asiatic Chinese, Tonkin, Siamese
 - .486 Africa
 - Cape breeds, Sennar Guinea
 - .489 Oceania
 - Papuan

636.5

Poultry

May be divided like 636.081-089 but for utilization use 51

51

Uses

Subdivide like 636.088 e R 636.513 Capon See note above

.52

English breeds

521

Dorking

522

Sussex or Surrey

523

Kent

.524

Orpington

525

Redcap

526

Other English

Lincolnshire buffa

527

Scotch grays

528

Other Scotch

Scotch bakes or dumplings Jumpers Dumbartonshire

53

German and Dutch breeds

531

Hamburg

532

Lakenfelds

533

Ramelshoher

536

Styrian

537

Bohemian

538

Other

East Friesian Westphalian Thuringian Alsatian Nassau, Augsburg etc
Magyar

54

French and Belgian breeds

541

Crèvecoeur

542

Houdan

543

La Flèche Le Mans Caux

544

La Bresse Louhans, Bourg, Bourbourg, Barbézieux,

Caussade, Courtes pattes

545

Faverolles

546

Gournay, Pavilly, Caumont

547

Other

Cocou French cuckoo Mantas Estaues

548

Belgian breedsCampenes or Camp nes or Brackel Brabant Huttegen
Bredas or Guelders or Guelderlands Cocou de Mal nes Bruges

55

Italian breeds

Use also as general number for Mediterranean breeds

551

Leghorn

552

Paduan or Polish (in England)

Also tailed Pompadour Padoue Polanders

553

Polverara

554

Ancona

- 636 56 Spanish breeds
- 561 Castilian
- 562 Minorcan
- 563 Black Spanish
- 564 Blue Andalusian
- 565 Prat
- 57 Other European
- 571 Pavloff (Russian)
- 572 Siberian featherfooted
- 573 Sultans
- 58 Other countries
- 581 American breeds
- 1 *Dominican, Dominique, Dominiker*
- 2 Jersey blue
- 3 Bucks county
- 4 Java
- 5 Buckeye
- 6 Winnebago
- 582 Plymouth rock
- 583 Wyandotte
- 584 Rhode Island red
- 585 Asiatic breeds
- 1 Cochin China Shanghai
- 2 *Brahmaputra Brahma, Gray Chittagong*
- 3 Langshan
- 4 Malay
- 7 Japanese fowls
- White Yokohama
- Phoenix
- 587 Special varieties
- 1 Bantams
- 11 Common
- 12 Game
- 13 Polish
- 14 Asiatic
- 15 Japanese
- 588 Other
- 1 Game
- 11 Aztec or Aseel
- 12 English game
- 13 Sebright (a bantam only)
- 14 Cornish Indian or Indian (in England) or Cornish (in America)
- 15 Malay
- 2 Deformed
- Rumpless or tailless or Wallkin Turkey necks naked necks Gillies nude
- 3 Silkies
- 4 Fuzzles

- 636 59 Other fowls
- .592 Turkey
- 1 Original species
- 11 American, or N American 'original' or wild turkey (*meleagris Americana*)
- 12 Mexican wild turkey (*meleagris Mexicana*)
- 13 Honduras wild turkey (*meleagris ocellata*)
- 14 Crested turkey
- 2 Bronze
- English Cambridge turkey
- 3 Narragansett
- 4 Buff
- 5 Slate or Austrian whites (in England)
- 6 White, or White Holland (in America)
- 7 Black, or Norfolk or black Norfolk (in England)
- 8 Bourbon red, or Bourbon butternut, or Kentucky red
- .593 Guinea fowl
- .594 Fezant
- .595 Peacock
- .596 Pigeons
- 1 High class fancy pigeons
- 11 Pouters
- 12 English carrier
- 13 Runt
- 14 Barb
- 15 Shortface tumbler
- 2 High class toy pigeons
- 21 Fantail
- 22 Owls
- 23 Turbits
- 24 Frillbacks
- 25 Jacobins
- 26 Trumpeters
- 27 Scandaroons
- 28 Florentine amalgamated, Hen
- 31 Dragoon, Horseman
- 32 Priests
- 33 Brunswick
- 34 Oriental frills
- 35 Homers, white homing, Antwerp
- 4
- 5 Other toy pigeons

AGRICULTURE

636 597

Ducks

- 2 English breeds
- 21 Aylesbury
- 22 Indian runner
- 23 Blue Swedish
- 4 French breeds
 - Rouen, colored Rouen, also called Rhone and Roan
- 8 Other countries
- 81 American
 - 82 Cayuga black Cayuga
 - Also called Big black and Lake duck
 - 83 Muscovy
 - Colored Muscovy Musk duck white Muscovy
 - 85 Asiatic Pekin white Pekin
 - By Chinese called Mandarin

598

Goose

- 3 German Emden, white Emden
- 4 French Toulouse, gray Toulouse
- 7 Sebastopol
- 8 Other countries
 - 81 Wild or Canadian Gray wild
 - 85 Chinese white brown
 - 86 African
 - Also called Indian gray African and Guntur
 - 87 Egyptian Colored Egyptian
 - 89 Spurwing (Australia)

.6

Birds

For poultry see 636 5 Here are classed domesticated birds useful for plumage or work, and pet birds

61

Birds useful for their feathers

For geese see 636 598

611

Ostriches

62

68

Song and ornamental birds

681

Swan

686

Cage and aviary birds

7

Dogs

May be subdivided like 636 081 089, but for uses see 636 72—755

71

Breeds

72

Utility dogs

73

Draft and other work dogs

74

Watch dogs herd dogs

75

Hunting and sleuth dogs Carrier dogs

76

Pet dogs

765

Toy dogs

77

Dogs in art

See also 755 Animal painting

78

Dogs in literature

Essays stories biography etc.

79

Other topics

637 233	Butter making			
1	Separating cream			
2	Churning			
3	Washing			
4	Working			
5	Salting			
6	Pasteurization			
7	Ripening			
.235	Transport and packing			
1	Methods of packing	Receptacles		
24	Utilization	Consumption		
	In lading residues			
247	Buttermilk			
26	Alterations	Diseases	Impurities	Adulterations
27	Renovation			
28	Substitutes for butter			
281	Oleomargarin			
282	Butterin			
3	Cheese			
31	Economics			
316	Finances and accounts			
317	Expenses			
318	Returns			
5	Sale prices			
32	Character and composition			
321	Character and properties			
322	Constituents			
323	Grades of cheese			
325	Cheese testing			
327	Cheese analysis			
33	Cheese manufacture			
331	Cheese factories			
332	Installation apparatus			
1	Boilers			
2	Curd muls			
3	Presses			
333	Cheesemaking			
1	Curdling	Rennet		
2	Refining			
3	Pressing			
4	Heating			
8	Putting in molds			
335	Transport packing, etc.			
1	Packing			
2	Storage			

AGRICULTURE

637.34	Utilization	Consumption
	Including by products	
	-	
.345	Milk sugar	
.347	Whey butter	
.35	Varieties	
.351	Rennet cheese from cow's milk	
.352	Soft cheese, fresh, unriped	
.353	" " riped	
2	English	
3	German Limburger	
4	French Brie, Camembert, Neufchatel	
5	Italian Gorgonzola	
.354	Hard cheese	
2	English Cheshire, Cheddar, Sage, Stilton	
3	German, Swiss, etc Emmental, Edam	
4	French Gruyère, Gex	
5	Italian Parmesan	
6		
7	Other European	
.355	Rennet cheese from other than cow's milk	
1	From sheep's milk Roquefort, Texel	
2	" goat's "	
3	" reindeer "	
4	" buffalo "	
.356	Sourmilk cheese from cow's milk	
	Cottage cheese Dutch cheese pot cheese smear-case	
.357	Sourmilk cheese from other than cow's milk	

638 Useful invertebrates raised or exploited

Invertebrates whose products are useful for food or manufactures

- .1 Bee keeping Apiculture
 - For scientific or entomological treatment see 595.799
- 11 Economics Apitechny
 - Divided in general on lines of 631
- 111 Economics
 - 1 Establishing apiary
 - Location site woodland valley mountain meadow Ground
 - herbage shade
 - Outapiaries
 - 15 Systems of managing
 - Supervision Share system
 - 2 Laying out
 - Wind breaks Bee gardens
 - 4 Types of apiary
 - Migratory floating etc
 - 6 Finances Accounts Bookkeeping
 - 7 Expenses
 - 8 Returns Selling
 - Marketing
 - 9 Buildings Apiary
 - Bee houses bee cellars. For hives see 638.142
- 112 Apitechny
 - When not otherwise provided for Divided like 636.08
 - 1 Stocking apiary
 - Select on varieties of bees to buy Overstocking locality
 - 2 Formation of stock
 - Hive record books
- 12 Bees
 - Class here everything on the hive bee except scientific works on bees in general (Apidae) which are classed in 595.799
- 121 Natural history of bees
 - For diseases and hygiene see 638.15
 - 1 Organography Descriptive anatomy
 - 2 Physiology
 - 3 Embryology
 - 5 Habits
 - Life of the hive
 - 52 Abode Migration
 - Swarming preparation and accomplishment Clustering scouts
 - 53 Food
 - Nectar and pollen gathering Honey and bee-bread making Water salt
 - 54 Seasons
 - The bee year Wintering preparations
 - 55 Sexes
 - Queens Drones Workers
 - 56 Breeding
 - Flight of queen Care of young etc Brood rearing
 - 57 Protection
 - The sting
 - 6 Products of bees
 - Natural history viewpoint for commercial see 638.16-17
 - Comb honey wax bee bread bee gum

- 638 122 Races of hive bees *Apidae*
- 123 Varieties of common honey bee *Apis mellifica*
- 2 Black bees (general)
- 3 Yellow bees (general)
- 124 European varieties
- 3 Black or German bee
- 5 Italian or Ligurian bee *Apis ligustica*
- 125 Asiatic varieties
- 126 African "
- 1299 Other genera of honey bee
- 12 Pasturage
- 131 General questions
- Calendarial Cultivation
- 132 Nectar plants
- When works dealing with divisions of 638 132 are further limited by latitude class in 638 134
- 1 Nectar production by plant composition, etc
- 2 Cultivation of nectar producing plants
- 3 By color of nectar
- 32 Very light
- 33 Light
- 34 Medium
- 35 Dark
- 36 Very dark
- 4 By plant type
- Trees shrubs vine herbaceous
- 5 Species
- Divided like 530
- 6 By season
- 62 Spring nectar
- 63 Summer "
- 64 Autumn "
- 7 Physiography
- Water plants, meadow forest rock etc
- 8 By elevation
- Mountain sea level etc
- 9 By country
- Divided like 930-999
- For general works only better class when possible by latitude 638 133
- 133 Latitudinal nectar plant classification or distribution
- Class these works combining features coordinated by 638 33 in 38 32 or 638 3-137
- 2 Tropic regions 20 degrees N and S
- 3 Warm 20-30 degrees
- 4 Warm temperate regions 30-35 degrees
- 5 Temperate regions 35-40 degrees
- 6 Cool temperate regions 40-45 degrees
- 7 Cool regions 45-50 degrees
- 8 Cold regions 50 degrees --
- 134 Fruit trees and shrubs
- Divided like 634
- 135 Other trees and shrubs
- 136 Clovers
- 137 Other nectar plants

DECIMAL CLASSIFICATION

- 638 138 Pollen plants
 - 1 Pollen
 - 2 By special points of view
 - 3 Latitudinal
 - D v de like 638 133
 - 5 Trees
 - 7 Herbaceous pollen plants
- 139 Other pasturage
 - 1 Honey dew honey
 - For honey dew in the sense of secretion from leaves and fruit Po
 - and honey also called honey dew see 638 1392
 - 2 Afid honey
 - 8 Bee-gum plants
 - Propolis plants
- 14 Bee culture
 - Control of hive work
- 141 General management
 - 2 Methods
 - 3 Tools
 - 5 Handling or controlling bees
 - Smoking smoke & veils stings and remedies
 - 6 Calendarial Bee year
 - 62 Spring work March May
 - Awakening period
 - 63 Summer work May June
 - Swarming period
 - 64 Autumn work July Oct
 - Harvest period
 - 65 Winter work
 - Wintering
 - 652 Outdoor wintering
 - Protective equipment
 - 653 Indoor wintering
 - 8 Outapiary manipulation
 - Moving bees
- 142 Hives and parts and their manipulation
 - 2 Fixed or single piece hives
 - Straw clay etc Skeps
 - 3 Movable frame hives
 - Parts of movable-frame hives
 - Supers sections brood frames partitions and bee escapes
 - 5 Observation hives
 - 7 Queen bee-raising hives
 - Cell cups queen cages
- 143 Hive cleaning Bee transferal
 - 1 Hive cleaning
 - 4 Bee transferal
- 144 Comb-building and Feeding
 - 2 Comb-building and
 - Guides for comb Frame manipulation
 - 3 Comb foundation
 - Manufacture and use
 - 5 Feeding and foods
 - Spring and fall feeding Watering

638	145	Bee stock control
	3	Crossing hive-stocks
		Italianizing
	5	Queen rearing
		Mating queens Shipping queens
	6	Introducing queen into hive
146		Increase of colonies Propagation aids
	2	Swarming control
	27	Natural swarming control
	222	Primary swarm
	223	Secondary swarm
	224	Swarm hiving Swarm catchers
	23	Artificial swarming control
		Queen clipping
	24	Prevention of swarming
	25	Nonswarming hives
	5	Artificial increase of colonies
	52	Combining hives
		Treating weak hives Nuclei
147		Other hive manipulations
	1	Pillage by bees prevention
148		Harvesting
		Comb honey removal
15		Hindrances and protection
151		General questions
152		Diseases and other injuries
		Class a special remedy with the special disease
	1	General questions
		Legislation state inspection and control
153		Adult diseases
	2	Of respiratory system
		Isle of Wight disease acarine disease
	3	Of digestive system
		Dysentery May pest nosema disease bee paralysis or disappearing disease
154		Brood diseases
	2	Ultramicroscopic
		Virus sac brood
	3	Bacterial diseases Foul brood
	4	Fungi and mold diseases
		Chalk brood stone brood
	6	Chilled brood
155		Plant enemies
		Trapping plants milkweed Poisoning plants
156		Animal enemies
		Divide like 590 but class injurious insects in 638 157 instead of 638 15657
157		Insect enemies
		Divide like 595 7
158		Other injuries
	2	Poisoning
	22	By agricultural sprays
159		Means of protection
		General works Class remedy for a special ill with corresponding number

DECIMAL CLASIFICATION

638 16	Honey and other hive products
102	Composition of honey
1	Properties
	Color, taste, smell
2	Constituents
28	Poisoned honey (natural)
3	Grading
	For varieties of honey see 638 165
5	Testing
7	Analyzing
163	Preparing honey
2	Buildings- honey houses
3	Installation Apparatus
	Separators
4	Separating
42	Extracting Centrifuging
43	Straining solar extraction, etc.
44	Clarifying
45	Liquefying
	Boiling to prevent candyng
	Ripening, dehydrating
47	Preservation
5	Packing
6	
165	Varieties of honey
2	Marketing forms
22	Comb honey
23	Extracted honey Centrifuged honey
24	Straund "
25	Clarified "
26	Candied "
28	By color
282	Light
283	Amber
284	Dark
8	By food plants
	Divided like 638 13
9	By country
	When divisions 8 and 9 both apply prefer 8
166	Alterations of honey
2	Natural alterations
	Candyng on standing
3	Diseases
	Mold action
4	Impurities (natural)
5	Adulterations
	See also under public health 614.311
167	Substitutes
	Artificial honeys
169	Uses of honey
1	In medicin
4	As food
	Table sirup In cooking
7	In manufactures



- 638 17 Wax
- .172 Apparatus solar extractors
- .173 Rendering
Wax presses For refining see 665 2
- 176 Adulterants
- .177 Substitutes
2 Of vegetable origin
3 " animal "
- 179 Uses
- 19 Bees in other than productiv relations
Fertilization of flowers
- .199 Bees as nuisances
Attacking horses Runaways In towns
- .2 Silkworms
- .3 Resin- and dye-producing
- 31 General questions
Divided as far as needed like 638 32
- 32 Lac industry
- 321 General questions
- 322 Economics
2 Organization for production
3 Government regulation and legislation
5 Markets Marketing
6 Finances Accounts
7 Expenses
8 Returns Selling
- 323 Lac insects *Coccus lacca*
Nature and habitat For scientific or entomologic treatment see 595 752
- 324 Cultivation
1 General management
2 Food Feeding
6 Hindrances Protection
Paras tes etc
8 Harvesting Gathering
- 326 Lac products
2 Composition of lac
3 Preparation for market
See also 667 7 Chemic tekology
4 Varieties of lac Marketing forms
Stuck lac, seed lac or grain lac button lac garnet lac shellac lac waste
6 Alterations Adulterations
8 Uses
- 327 Dye products
Divided like 638 326
- 34 Kermes Scarlet grain *Coccus ilicis*
- 35 Cochuneal *Coccus cacti*
- 36 Polish grains *Coccus polonicus*
- 38 Murex
Rock-shell, etc

639 Hunting, trapping, fishing, fish culture, etc

See also 799 for sporting & de

- 1 Hunting, trapping, game preserves, etc
 - For fur farming (fox, skunk, etc farms) see 636.9
- .2 Fishing as an occupation
 - 21 Fresh water fishing River fishing
 - 22 Sea fishing
 - 27 Special kinds of fish
 - Divided like 597 using 639.2799 for turtles terrapin and other reptils
- 3 Fish culture Pisciculture
 - 31 In fresh water Stocking rivers
 - 311 Ponds Fish ponds
 - 312 Lakes
 - 313 Water courses
 - 32 In salt water
 - 321 Sea
 - 322 Brackish water Salt ponds Lagoons
 - 37 Special kinds of fish
 - Divided like 639.27
- .4 Oysters and other mollusks Shellfish
 - Oyster clam mussel snail pearl-fishing scallop quahog cockle winkle periwinkle
 - 41 Oysters
 - 411 Edible oysters
 - 412 Pearl "
- 5 Crustaceans
 - Lobsters crabs crawfish shrimps prawns
- .6 Other sea food
 - Sea urchin echinus
- .7 Sponges Coral
- 8 Other nonedible aquatic products
 - Leeches etc

640 Home economics Domestic science

Public as well as private household administration covering work of housekeeper, matron, steward janitor etc in hotels clubs apartments boarding houses, schools restaurants, factories offices and other commercial buildings churches, theaters railway stations, ships and other public gathering places

For economics of consumption including standards of living see 339 for care of library buildings see 635 9 Numbers for allied subjects in army and navy will be provided under military and naval science See also 331 83 Food clothes and shelter of laboring classes

SUMMARY

- 641 Food, cookery
- 642 Serving entertaining
- 643 Shelter, house, home
- 644 Heat, light, ventilation
- 645 Furniture furnishings Decoration
- 646 Clothing, toilet
- 647 Administration, household management
- 648 Sanitary precautions cleaning
- 649 Home care of children sick and infirm

- | | | | |
|----|---------------------------|----|-------------|
| .1 | Theories, utility, etc. | 4 | Essays |
| .2 | Compendis | .5 | Periodicals |
| .3 | Dictionaries, cyclopedias | 6 | Societies |

.7 Study and teaching

Schools of housekeeping experiment stations Investigations of home conditions For cooking schools see 641 67

.71 Schools and experiment stations

See 630 7 Agricultural schools farmers institutes 630 6 Farmers associations granges etc 371 426 Manual training courses 371 6764 Laboratory equipment for home economics courses 375 64 Place in curriculum, educational values 640 711-74 may be used for keeping all phases of the subject in 640

.711 College and university courses and departments

Schools of college grade

.712 Secondary courses, high school

713 Elementary courses below high school

714 Extension work

Courses for special needs women's clubs farmers' wives etc

72 Research work experiment stations graduate courses

For Sage foundation see 306

73 Normal courses teachers institutes, etc

74 Exhibits Museums

9 History

641 Food Cookery

For physiology of nutrition see 612 39 for dietetics and dietary standards 613 2 for food values 641 1

.01 Gastronomy Epicurism

Pleasures of eating esthetics of cookery epicures (gourmets) For gluttony see 178 9 and 613 25

02 Compendis

03 Dictionaries cyclopedias

04 Essays addresses lectures

05 Periodicals

06 Societies

07 Study and teaching Cooking schools classes and clubs

08 Polygraphy

09 History and description

Divided like 930-999 Including foods characteristic of different peoples but for preparation of specific dishes (i.e. recipes) peculiar to special countries see 641 59

- 641.1 Food chemically considered Food values Tables**
 For methods of chemical analysis see 543.1, for adulterations see 614.3 for commercial preparation or manufacture see 664 for physiology of nutrition see 612.39 for dietetics see 613.2
 612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view without regard to benefit or injury
 613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods
 641.1 translates scientific facts into familiar terms for cook and housekeeper treats of the required amount of the different constituents and their proportion as found in various foods
- 31 Organic food constituents**
- 312 Proteids or nitrogenous foods**
 Meat eggs nuts legumes etc See also 612.398
- 313 Carbohydrates or nonnitrogenous foods**
 Vegetables cereals fruits sugar See also 612.396
- 314 Fats, oils**
 See also 612.397
- 315 Inorganic food constituents**
- 316 Water**
- 317 Salts, mineral or ash constituents**
- 3 Animal and vegetable foods**
 Class here also work dealing both with food material and its preparation
 Subdivided like 630 e.g. 641.331 Cereals 641.34 Fruits
- 31 Prices Relative cost**
 Quality and other factors in buying for table
- 4 Food preservation Markets**
 Subdivide like 664
 For commercial methods see Chemical technology 664.8-9 for transportation see 656
- 5 Cookery Cook books**
 General recipes specific directions in whatever form (books cards etc) for preparing food
 Distinct between 612.39 613.2 and 641.5 in 641.5 class cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) are secondary in 613.2 class dietaries and selection and preparation of food for special systemic conditions with recipes subsidiary or with recipes and diet about evenly balanced in 612.39 class scientific study of physiologic effects of various foods regardless of benefit or injury
 See also 641.59 Recipes peculiar to special countries 641.6 Cookery of specific substances 641.7 Cookery by specific processes 641.8 Composite dishes ices confectionery beverages
- 52 Breakfast**
- 53 Luncheon, afternoon tea, supper**
- 54 Dinner**
- 55 Economic cookery**
- 56 Special conditions**
 Under limitations of age health ethical or religious theories, etc
- 562 Children**
- 563 Invalids and aged Hospital cookery**
- 564 Ethical limitations**
- 565 Religious limitations**
- 566 Seasons and days: Lent, fast days, etc**
- 567 Cults: Jews, Buddhists, etc.**

- 641 57 Special situations
 Adaptation to large numbers large variety and limitations of time place or appliances
- 572 Hotel and restaurant cooking
- 573 Army and navy cooking
 See also 355
- 574 Shipboard cooking
 Exclusiv of navy
- 575 Camp and travel cooking
- 576 Railway dining and buffet cars
- 577 Itinerant companies, circuses, etc
 Methods of feeding large numbers en route or in temporary shelters
- 578 Camp cooking
- 58 Special utensils or fuels
- 583 Cooking by oil
 Including oil and gas together
- 584 Cooking by gas
- 585 Cooking by alcohol Chafing dish recipes
- 586 Cooking by electricity
- 587 Cooking by apparatus heated by steam or hot water
- 588 Cooking by slowly applied heat
 Aladdin ovens fireless cookers
- 59 Cookery of special countries
 Class here descriptions of national cookery or recipes for dishes characteristic of special countries or regions
- 591 Frigid zone and cold weather
- 592 Tropics and hot weather
- 593 597 Divided farther like 930-999 using these numbers preferably only for reference solving looks under 641 5 578
- 6 Cookery, class by material
 Subdivide like 630
- 7 Cookery, class by process
- 71 Baking roasting
- 72 Braising
- 73 Boiling, simmering Soups
- 74 Stewing
- 75 Steaming
- 76 Broiling, grilling
- 77 Frying sautéing
- 8 Composite dishes
 Ices confectionery beverages etc See also 641 53 Luncheon afternoon tea, supper
- 81
- 82 Entrées Made dishes
- 83 Salads
- 84 Sandwiches
- 85 Confectionery, candies, sweets, bonbons
- 86 Ices ice cream, sherbet water ices etc
- 87 Beverages Soft drinks
 See also 663 Manufacture of beverages 663 8 Bartenders manuals mixing drinks 613 3 Hygiene of beverages

644 Heat Light Ventilation

.1 Systems of heating

Desiderata: relative advantages for household

For varieties of apparatus and installation see 697 for sanitary engineering see 628.8

15 Fireplaces Family hearthstone

Open fire as household institution: mental influence

Sanitary advantages See also 749 Artistic fireplaces

.19 Portable heaters bedwarmers warming pans, footwarmers

.2 Fuels

Relative cost, cleanliness, labor involved, e.g. hauling and carrying wood or coal and removing ashes Chimney sweeping

21 Wood

22 Coal

23 Oil, gasoline, etc

24 Gas

26 Electricity

.3 Systems of lighting

Fixtures fittings accessories. Class here general discussion covering fixtures and medium their relative advantages, etc. For medium alone see 644.31 for fixtures see 644.32

31 Lighting medium

See also Chemical technology 665

311 Candles

312 Oil

313 Gas

314 Acetylene

315 Electricity

See also 621.32 Electric lighting

319 Other

32 Apparatus and accessories

Subdivide each if wished like 644.31

321 Hand lamps Candlesticks

322 Lanterns

323 Table, banquet and piano lamps

324 Standards

325 Wall lamps Sconces

326 Chandeliers Ceiling fixtures

.5 Ventilation

Most material belongs elsewhere: hygienic influence of air and light 613.1; sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of fireplaces see 644.15

6 Domestic water supply

Drinking water hot water heating water for domestic uses

645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643

See also hygiene 6359 architectural decoration 739 design 745 art and furniture 749 manufactures of cotton wool etc 677

1 Floor coverings carpets, rugs

2 Wall coverings

3 Window and door furnishings

Screens shades awnings draperies weather strips

4 General furniture

See also 645 6 Furnishings for special rooms

41 Chairs Footstools

42 Couches Settees

43 Tables

44 Desks

47 Cushions pillows etc

48 Linen and other fabrics

Removable furniture covers centerpieces etc See also 542 7 Table furnishings 645 67 Bedroom furnishings

49 Other

5 Ornaments

Clocks vases pictures statuary etc See also 739 Bronzes brasses bricabrac

6 Special rooms

For kitchen see 643 3 for laundry see 648

61 Hall and stairs

Hatracks umbrella stands etc

62 Drawing room Reception room Parlor

63 Library

64 Study or office

65 Living room

Class here furnishings of room used as combined reception room library and living room

66 Dining room

For table equipment and decoration see 643 7-8

67 Bedrooms and nursery

Sleeping balconies open air bedrooms Beds and bedding linen etc. For nursery see also 649 2

68 Bathrooms Lavatories Toilets

Fittings and supplies See also 646 7 Bathing

69 Other rooms

Billiard and ball rooms picture gallery servants rooms cellar attic

8 Outdoor space

Verandas balconies roof gardens

For sleeping balconies see 645 67 See also 712 7 Private grounds 717 682 Arbors, seats outlooks 717 9 Garden furniture

646 Clothing Toilet

See also ethics of dress display 177 4 ecclesiastic costume 247 7 clothing as related to economics of laboring classes 331 836 bleaching and dyeing 667 1 3 academic costume 378 29 history of costume 391 clothesmaking 687 hygiene of clothing 613 48 adulteration of textiles 614 37 for uniforms and liveries see occupations to which they pertain

- 01 Psychology and economics of fashions
 - Reasons for change of fashions expense of fashionable dressing
- 02 Compendia
- 03 Dictionaries cyclopedias
- 04 Essays lectures addresses
- 05 Periodicals
- 06 Societies Dress reform societies
- 07 Study and teaching
- 08 Polygraphy
- 09 Adaptation to climate or season
- 091 Clothing for cold weather and frigid zones
- 092 " " hot " " tropics

.1 Materials Textils and fibers

With reference to domestic use or domestic use and hygiene combined For hygiene of materials see 613 481 for general works on textiles and fibers see 677 Manufacture of textiles

- 11 Cotton
- 12 Linen Flax Hemp
- 13 Wool Mohair alpaca camel's hair rabbit's hair etc
- 14 Silk
- 15 Leather
- 16 Fur
- 17 Other animal materials fethers, hair, whalebone
- 18 Other vegetable materials
- 181 Rubber
- 182 Paper
- 183 Celluloid
- 184
- 185 Straw Raffia
- 186 Other fibers jute
- 19 Other materials Tinsel aluminum asbestos etc

.2 Sewing Knitting Crochet

For fancywork see 746

- 21 Plain sewing
 - Running backstitching hemming overhanding etc
- 24 Mending Darning
- 26 Knitting and crochet Tatting
 - For knitting as a business whether done by hand or by machine see 677 661
 - for crocheting as a business see 677 662 for tatting as a business see 677 663
- 27 Crochet

.3 Clothing divided by wearers

Class here trade catalogs e g Italian bazar catalog 646 36
See also 391 Costume 687 Clothesmaking as a trade

- 32 Clothing for men
- 34 " " women
- 36 " " children

646 4 Clothing divided by purpose

Including directions to amateurs for cutting and making economic use of material suitability of material for purpose adaptation of style to material and purpose choice of color etc For limitation to special kinds of garments see subdivisions below e.g. patterns or catalogs of underwear 646 42

Subdivisions 42- 48 may be farther divided by 1 Men 4 Women 6 Children

42 Underwear**43 Outer house garments**

Gowns or dresses coats trousers etc

45 Outdoor garments

Cloaks coats overcoats shawls sweaters etc See also 646 5 Hedgear millinery 646 48 Accessories gloves mufflers etc.

46 Outer footwear

For hose see 646 42

47 Garments for special purposes

Negligée lounging or smoking yachting bathing hunting riding etc

48 Accessories

Neckties collars cuffs belts aprons caps handkerchiefs gloves mufflers garnitures etc

For outdoor hedgear see 646 5

.5 Millinery Outdoor hedgear

See 687 4 Millinery as a business

52 Hats, caps, etc for men**54 Hats and bonnets for women****55 Other outdoor hedgear for women**

Hoods scarfs etc

56 Hedgear for children**57 For boys****58 " girls****.6 Cleaning Drycleaning Dyeing**

For laundry see 648 1

.7 Toilet Cosmetics Bathing

Care of hair nails teeth etc

For historic customs see 391 5- 6 See also hygiene 513 4 Care of body

647 Household organization and administration**.1 Household accounts; finances, cost**

See also bookkeeping 637

.2 Personnel

Intelligence office employment bureau

Class here regular employees or assistants for occasional employees see 647 29

For ethical considerations see 173 8 See also political economy, 331 Labor and wages

.21 Manager

Superintendent housekeeper steward,

22 Male employees**23 Female "****24 Foren "**

Races and nationalities orientals negroes, etc.,

- 647 25 Indoor servis
Cook butler waitress parlor maid lady's maid chambermaid nurse
laundress furnaceman etc For housekeeper steward etc see 647 21 for
outdoor servis see 647 3
- .29 Other employees
Emergency help household registers
- .3 Servis outside the house
Coachman gardener laborers
- .6 Wages Hours Duties
- .9 Cooperativ and collectiv housekeeping
Hotels clubs apartments commercial bildings churches and other public and
semipublic establishments or rooms
See also 692 9 Blding laws 728 Residence architecture
- .91 Tenements
See also 728 1 Tenement house architecture 331 83 Housing of laboring
classes includ ng tenement house laws 613 53 Hygiene of tenements
- 92 Apartments, flats
See also 728 2 Apartment house architecture
- 93 Cooperativ housekeeping
See also 334 4 for economic aspect
- 94 Hotels Clubs
See also 728 4 Clubhouse architecture 728 5 Hotel architecture
- 95 Restaurants tea rooms etc
See also 642 5 Table systems for large numbers
- 96 Public bildings Institutions
General administration and care affecting health and convenience of occu-
pants and public janitors duties May be subdivided if wisht like 725
or 647 962 Administration of offices bildings or 647 9623 if no close
classification is preferred
See also 362 Hospitals asylums etc 365 5 Prisons
- 97 Cottage systems Tourist camps
- 648 Sanitary precautions: laundry, cleaning
- 1 Laundry Washing
Private cooperativ public For other processes of clothes cleaning see 646 6
Dry cleaning For sanitary precautions see 648 3 6 for pests see 648 7
- 11 Administration Accounts
- 12 Marking
- 14 Equipment
Collectiv specifications and cost Clas specific appliances with processes
to which they belong
- 15 Hand equipment
- 16 Power "
- 18 Supplies
Soap starch bluing powders reagents
- .2 Washing
Requirements of temperature ingredients etc for different materials Wash-
ing directions
- 22 Washing by hand
- 23 " machine
- 25 Starching
- 27 Bluing Tinting

- 648 3 **Drying** **Driers** **Extractors** **Wringers**
 Confined or open a r Temperature Effect on dyes of freezing etc
- 4 **Ironing**
- 42 By hand Sad irons
 Electric and gas heated irons etc.
- 43 By machine Collar and shirt machines, fluting irons, etc
- 45 Power machinery Mangle
- 5 **Cleaning and sanitation of house or blding**
 See for sanitary engineering 628 for plumbing 696 for dry cleaning 646 6 for chimney sweep 67 644 2
- 52 **Sweeping and dusting**
 Floors walls moldings furniture implements vacuum cleaners etc
- 54 **Washing**
 Porcelain glass windows mirrors paint including table ware bricabrae and fixtures For washing textiles see 648 2
- 55 **Polishing**
 Silver knobs scutcheons pipes and other metals
- 6 **Disinfecting**
 Waste pipes traps etc Household disinfectants See also 649 8 Care of sickroom and public health 654 48 Disinfecting apparatus
- 7 **Pests, traps, poisons, insectifuges**
- 8 **Storage**
- 649 **Home care of children, sick, infirm and aged**
 This provides for persons requiring special adjustment of household administration children and invalids
- 1 **Care of children**
 See also 136 7 Child study 173 5 Duties of parents
- 2 Rooms Nursery
- 3 Food
 See also 613 23 Diet of infants 641 562 Cookery for children
- 4 Clothing and care of body
 See also 646 36 Children's clothing outfit and making 646 4 Clothing for various purposes 613 4 Hygiene of bathing and clothing 687 13 Manufacture of children's clothing
- 5 Exercise Recreation
 See also 613 7 Hygiene of recreation 790 Amusements
- 55 Amusements toys dolls games
- 6 Manners Habits
 See also 173 6 Duties of children
- 7
- 8 **Care of invalids and the infirm** Sickroom

650 Communication Business

- | | | | |
|-----------------------------------|---|--|-------------------------|
| 1 Theory
addresses
teaching | 2 Compendia
5 Periodicals
8 Collections | 3 Dictionaries, cyclopedias
6 Societies, conventions
9 History | 4 Essays
7 Study and |
|-----------------------------------|---|--|-------------------------|

651 Office economy

In industries and mercantile business 651 represents the nonproductive branch overhead charges See 658 for productive branch alone of manufacturing or mercantile concern

REFERENCES TO ALLIED SUBJECTS

- | | |
|---------------------------------------|---|
| 629 Literary methods and labor-savers | 643 5 Cleaning |
| 613 6 Hygiene of employment | 6 Disinfecting |
| 7 " recreation and sleep | 7 Pests |
| 628 6 Sanitation house drainage | 695 Plumbing |
| 8 Ventilation and heating | 697 Heating and ventilation
(construction) |
| 9 Lighting | |

SUMMARY

- | | |
|-------------|--------------------|
| Environment | 1 Space |
| | 2 Equipment |
| Structure | 3 Organization |
| Function | 4 Administration |
| | 5 Records |
| | 6 Special material |
| | 7 Correspondence |

651.1 Office buildings and rooms

See also 725 Public buildings (architecture)

- 11 Location
 - Separate buildings rooms in manufacturing buildings in office buildings etc
- 12 Site
 - With reference to space air light soil slope of ground, etc
- 13 Provision for growth
- 14 Arrangement
 - For economy of time and space floor space wall space
- 16 Special rooms

Directors trustees	Typists
Manager	Lunch and conversation rooms
Accountant	Rest rooms
Dictionation	Safety vaults, safes
- 19 Safety
 - See 614 8 Protection of human life from accidents, 331 823 Safety (under Economics)
- 2 Equipment
- 22 Fixtures
 - Partitions counters ledges, gates stationary shelves
- 23 Furniture
 - 231 Chairs, stools, settees
 - 232 Tables
 - 233 Desks
 - 234 Revolving cases
 - 235 Furniture for using books, etc.
 - Reference-book holders
 - 236 File cabinets, vertical files
 - See also 651 34 Storage methods
 - 239 Other
 - Blackboards, umbrella stands clocks bulletin boards etc.

- 651 24 **Furnishings and decoration**
 Put here only material limited to office For other relations see **Decoration**
 in Relative index
- .241 **Floor coverings**
 May, if needed, be further subdivided as follows
 1 Linoleum, cork, etc.
 2 Matting
 3 Carpets
 4 Rugs
 5 Doormats rubber, wire, etc.
- .242 **Wall treatment covering or finish, pictures**
- .243 **Window and door furnishings (shades, curtains, portières)**
- .26 **Mechanical appliances**
 For general or common use or belonging to a centralized system nondivi-
 dual not limited to a special department
 See also 652 Typers, duplicators, addressing machines telautographs
 657 Protectographs, bookkeeping machines and machines for checks, handling
 money, etc.
- .262 **Oral communication: telephones (wall, desk, in booth)**
 Office requirements and accessories Number location
 See for telephone business 654 6 for telephone engineering 671 353
- 5 **Local systems: interphones**
- 8 **Speaking tubes**
- .263 **Dictating machines**
- .264 **Calculators, tabulators, statistical and adding machines**
 See also 510 8
 If closer classification is needed add heads below
 1 Adding machines
 11 Listing
 Those devised primarily for adding even tho capable of other proce-
 dures (multiplying dividing subtracting) by special manipulation
 12 Nonlisting
 13 Tally counters
 3 Approximate calculating devices
 Based on logarithmic scale slide rules, etc.
 4 Exact calculating devices (mechanical)
 5 Graphic or area calculators Planimeters
 6 Statistical machines e. g. sorting or tabulating Hollerith
- .265 **Numbering machines**
- .266 **Fastener, seal and other presses**
 For multigraph and other duplicators see 652
- .267 **Mail and shipping room devices**
 Letter and merchandise scales folding and wrapping appliances, etc.
- .268 **Hoists, carriers, pneumatic tubes, etc**
 Local between desks or separate rooms of same office
 See also engineering 621 85 Hoisting and conveying machinery, 651 549
 for construction and 654 8 for operation and systems of pneumatic tubes
- .269 **Other mechanical devices**
- .3 **Organization**
 See also 317 7 Commercial law for legal rights and restrictions 380 Com-
 merce and communication for relations of corporations to state and public,
 653 14 for financial organization of a business enterprise
- .32 **Work**
 Branches departments divisions sections, etc.
- .321 **Planning department**

651.34

Workers

Offs alone and those common to both offs and product v branch. See 651.3 for those having to do with product v branch alone. May if desired be further divided like 331.11. Topics covered by 651.34 and also by 651.37 are classed in 651.37.

37

Grades Titles and duties

372

Officers executive, director Head of enterprise

373

Staff department, division and section heads

5

Understudies deputies

374

Employees, routine workers

2

Bookkeepers

3

Clerks stenographers typists

4

Telephone operators etc

6

Pages messengers runners

7

Janitor force laborers

8

Apprentices volunteers Not on payroll

38

Pay salaries wages pensions

Offs notes and discussions affecting the individual staff. For general discussion see economics 331.2 Remuneration for work.

If wished 651.38 may be subdivided like 331.2 e.g. 651.382 Wage scales 651.3825 Extra pay bonuses bounties etc 651.384 Profit sharing 651.3852 Pensions (subdividing still further like 651.37 if necessary)

4

Administration

Office efficiency i.e. ratio of work accomplished to expenditure of time effort material (goods money space)

41

Time

412

Disposal of time

By those above routine grades officers and staff

Regular engagements monthly weekly daily

Public hours for business callers appointments telephone vs personal interview Private hours interruptions only for urgency

42

Daily hours Holidays and vacations

421

Daily hours

1

Records Record clock

2

Punctuality Tardiness

422

Hours for meals Lunch room

See also 651.16 Special rooms

423

Special work

1

Evening

2

Sunday

3

Holiday

424

Work by hour Overtime extra hours

1

Making up lost time

2

Payment for overtime

3

Effect of overstrain on employees

4

" " " " service

425

Holidays

1

Weekly half holiday

2

Legal holidays

426

Vacations

1

Time of year

2

Length

3

Continuous or in instalments

4

Sabbatic year

- 651 427 Absences for sickness or other causes
 See also 651 4241 Making up lost time
- 428 Attendance at meetings
- 1 International
- 2 National
- 3 State
- 4 Local
- 44 Staf rules General requirements Incentives Discipline
- 441 Conversation
- 442 Personal calls or work
- 443 Soliciting money subscriptions, contributions
- 444 Respect and care for property
- 445 Personal appearance dress uniforms
- 446 Courtesy Indifference
- 447 Incentives
 See also 331 9 Encouragements to work offered by government etc
- 2 Suggestion systems
- 448 Discipline
- 2 Fines
- 3 Stoppage of wages
 For general question see 651 3812
- 6 Stoppage of privileges
- 449 Staf meetings Relations between staf members
- 45 Methods of increasing effectiveness
 Stimulation of effort
 For material on study see 658 5423 for organization of work see 651 32
- 451 Variety of work vs monotony
- 452 Labor savers
 Business view advantage to employer for personal view see 029 2
 See also 651 26 Mechanical appliances 651 465 Fittings and 651-466 Supplies
- 453 Methods routines
 Principles e.g. cart not to be put before horse For general discussion of value of methods see 029 1 Class routine for each kind of work under its number but here may be put chief's reference file of routines subdivided by class number or alphabetized by subject
- 455 Training of new appointees
- 456 Information or 'front' desk 'Plant' messenger service
 Systematic collection and distribution of intraplant communications and small articles Discussion as administrative economies For place in organization see 651 32
- 457 Mail and express routine
 Receiving Distributing opening and dating Collecting Sending
 For place of this section in the organization see 651 32

651 46

Material

Fittings and supplies considered together Use of bargain catalogs

.461

Quality

Economies in adapting to purpose, e. g. extravagance of expensive cloth envelopes for cheap printed circulars

.462

Quantity

Quantity discounts advantage of buying in bulk instead of in packages, etc

.463

Sizes

See also 029 1 Standard sizes

.464

Use, care of stock, stock closets or room

Times (days and hours) Requisition routine

.465

Fittings

Distinguished by capacity for repeated or long wear from supplies which are consumed in using, e. g. inkstands or fittings, inks or supplies

History and discussion of writing materials is in 652 Enumeration below is for office memoranda of source of supply, prices, kind and quantity to be kept on hand, etc

1

Cutting: shears, knives, pencil sharpeners, paper cutters, letter openers, punches

2

Fastening: clips, pins, rings, binders, mucilage bottles, etc

3

Writing: inkstands, penholders, fountain pens, rubber stamps, ink pads, steel erasers, typewriter pads

4

Drawing, measuring, weighing: compasses, dividers, straight edges, rulers, tape measures, scales, balances

5

Calculating: tables, charts, interest, amortization and wage tables, index numbers, etc See also 510 8

6

Holding: racks, baskets, coin trays, boxes

8

Memoranda: ticklers, card trays, guides, spindle files, etc

9

Other: brushes, pliers, sponge cups, perpetual calendars (wall or desk) etc

.466

Supplies

Perishing with use, see note to 651 465

2

Fastening: mucilage, glue, paste, adhesive clips, rubber bands

3

Writing: paper, pencils, steel pens, ink, typewriter ribbons, blotters, rubber erasers, ink eradicators

7

Labeling: tags, gum labels, letters and figures

8

Memoranda: calendars, notebooks

9

Other: blanks, sponges

.47

Inventories

.472

Frequency and times

.473

Forms

.474

Perpetual, automatic

- 651.5 **Records Files and filing**
 Matter, form treatment
- .51 **Form**
- 512 **Book**
- .513 **Card system**
- 2 **Cards**
- 5 **Sheets, loose leaves Looseleaf books**
 For publication in looseleaf form see 655.53
- 8 **Strips (clocks, adding machines, etc.)**
- 52 **Mode of production**
- 522 **Hand written**
- 523 **Machine "**
- 525 **Automatic e. g. clock records**
- 53 **Arrangement, classification**
- 531 **Bases department, subject, function, person, priority, importance**
- .533 **Systems**
- 2 **Alfabetic persons, places or subjects in a b c order, self indexing**
- 4 **Numeric 1 2 3 order requiring index**
- 5 **Cronologic by dates "**
- 6 **Class numeric, alfabetic or mixt notation requiring index**
- .54 **Storage methods**
 For file furniture see 651.236
- .542 **Flat on side**
 Cab net box and pigeonhole filing
 For roller shelving see 622.46 for cases for maps and drawings see 622.435
- .543 **Rolled**
 Horizontal on shelves, wall or in drawers
 On end in closets or stalls
- .545 **Erect, on shelves**
 Books binders file boxes
- 546 **Vertical files**
- 55 **Accessories**
 For furniture see 651.23
- 552 **Guides**
 Height Projections advantages width
 Material paper wood metal celluloid
 Reinforcement label holders celluloiding
- .554 **Labels**
- 56 **Permanent records**
 Elements determining establishment authorization
- 563 **Statistics**
 See also 311
- 2 **Data**
- 4 **Tables**
- 6 **Graphs (line, block and other charts)**
- .57 **Temporary records and papers**
 Engagements, memoranda and other desk miscellany
 Pigeonhole systems Ticklers

- 651 6 Special material
 For accounting records see 657
 ▪ stock and sales records see 658 7-8
- 62 Specifications
- 63 Estimates
- 64 Plans drawings maps
- 65 Printed matter (issued by office)
 Order records and blanks File of samples
- 66 Employees records
 Applications recommendations grading time
- 67 Letter files
 See also 651 533 Arrangement
- 672 By correspondents
 Rules for determining correspondents writer or firm officer or institution etc For numeric system see 651 5334
- 673 By subject
- 675 Removals 'out' indexes markers dummies
- 677 Copies of outgoing letters
 In books separate from letters
 Carbon on back of original or on separate sheet roller copies filed with letters
- 678 Transfer files (for storage)
- 7 Correspondence, reports, etc
- 71 Stationery
 See also 659 133 Addressing
- 712 Paper size quality weight tint etc
 For papermaking see 676 for history of writing material see 652
- 713 Letterheads
- 714 Memo heads
- 715 Bil heads
- 717 Postcards
- 718 Envelops
- 72 Blanks
 For saving letterwriting e.g. forms for extracts from minutes For other special purposes see top c
- 74 Style Business English
 Conciseness spelling capitalization punctuation markings spacing
 See also 629 6
- 75 Letters
- 752 Definiteness and accuracy paragraphing and tabulating
- 753 Opening (address) and closing postcard style
- 754 Inclosures Separate related matter
- 756 Form letters automatic (answers by key numbers)
- 757 Follow up
- 758 Interstaff notes
 Directness, brevity. See also 653 24 Notehand abbreviations
- 76 Notices calls for meetings
- 77 Minutes committee business
 See also 651 72
- 78 Reports
 Organization of material analysis
 Transmission and introduction
 Statistics Recommendations, etc.

652 Writing; material, typewriters, cypher

653 Abbreviations Shorthand

A fuller expansion of this subject may be had from Forest Pres for approximately cost of making carbon copies

Form divisions 01-09 given in Table 2 after Relative index may be used for both shorthand in general and for particular systems Material pertaining to a particular system or system group may be class by form yet kept together by applying these form divisions *after* the figures of the Cutter author number Class under general number only material independent of a particular system

.I Shorthand theory Tecnic

General considerations definitions nomenclature

II Phonetic Sounds

Analysis or discuss on for shorthand purposes only General phonetic facts go under 414. 421 4 etc

12 Graphic Signs

121 Graphic resources or limitations independent of system type

Influence of handwriting usage analysis of longhand customary writing materials, educational conditions etc

123 Geometric shorthand graphic material

A geometric shorthand system selects for its basic material the geometrically simplest signs then recognizes that all experience — both longhand and shorthand — proves that most or all of the signs actually written in any given word are best written joined together and proceeds to deal with the many joining problems which such signs involve by various ingenious devices of varying complexity and effectiveness such as the appendages or length devices of Pitman's shorthand or the blends or reversing or disjoining principles of Gregg

.125 Hybrid shorthand graphic material

A hybrid or script geometric system represents an attempt to compromise or combine the radically different principles of geometric and script systems This compromise most often takes the form of attempting to impart to essentially geometric shorthand signs some of the fluency of script shorthand signs by excluding from the geometric material those features least conducive to fluid joinings such as position (absolute position) shading left diagonal signs, etc a process which results in severe limitation of shorthand resources

127 Script shorthand graphic material

A script shorthand system recognizes from the first that all experience — both longhand and shorthand — proves that most or all of the signs actually written in any given word are best written joined together selects for its basic material the graphically simplest signs i.e. those easiest to write and to read when joined together in actual writing

129 Other types of graphic material

Dependent on special materials — crossruling staves diagrams etc

13 Synthetic Principles Assignment of signs to sounds

135 Principles of outline formation

14 Legibility Reading

15 Brevity Writing Speed

152 Shorthand penmanship

157 Speed practice Training for speed

158 Distortability of signs

16 Simplicity Remembering

17

18 Applications Usefulness

For place in education see 375 653

19 Other aspects of shorthand theory

Nonlinguistic shorthand, e.g. music shorthand

- 653 2 Abbreviations** **Abbreviation systems using common characters only**
- 21 Desirability Dangers Methods
- 22 Omission of silent letters vowels etc
- 23 Lists of recognized abbreviations
- 24 Abbreviation systems Notehand Brief longhand
- 241 Grammatic abbreviations
- 25 Abbreviation systems primarily for ordinary typewriter
For machine shorthand and shorthand machines see 653 3
- 27 Systems for special purposes
Phillips Code for telegraph dispatches
May be divided by subject or purpose like manual classification
- 28 Systems divided by language like 400
- 3 Machine shorthand** **Shorthand machines**
For mechanical form and construction details of shorthand machines see 681 6
- 4 Shorthand systems classed by language**
Under each language alphabetized by authors. All publications of any single shorthand system may be kept together by arranging them by Cutter number for original author followed by lower case initial of surname for author of individual textbook or pamphlet
- 4089 Shorthand systems or adaptations for international auxiliary languages
Divided like 408 9
- 41 Polylingual shorthand systems
- 42~ 499 Divided like 420~499
Most or all libraries should classify all shorthand systems publications here rather than 5 7 which are primarily for use of specialists. All publications of any single shorthand system may be classed by form yet kept together by applying the form divisions of 653 01~.09 after the figures of the Cutter number e.g. Graham shorthand dictionary 653.42 G7603
- 653 5 7 Shorthand systems classed by structure**
Most libraries should arrange shorthand publications alphabetically by name of system author under 653 4 using 5 7 only for indexing and cross-references. A few representative examples of classification by structure are included in the tables. See note under 653 42
- .5 Early shorthand**
Not clearly differentiated as to phonetic or graphic structure. Class systems under .6 and .7 as far as applicable regardless of date of publication
- 51 Ancient classical and medieval shorthand
- 52 Ancient shorthand
- 53 Classical Greek tachigraphy
- 54 Roman shorthand Tironian notes
- 55 Medieval shorthand
- 56 16th and 17th century shorthand
- 57 18th century shorthand
Samuel Taylor Thomas Gurney (Brachigraphy) etc
- 58 19th century shorthand (not clearly classed under 6 or 7)
Wm Harding George Odell etc
- 6 Nonphonetic and partly phonetic shorthand systems** **Syllabic systems**
In languages substantially phonetic in spelling e.g. German Italian Spanish, classify shorthand with phonetic systems according to shorthand structure
- 61 Nonphonetic shorthand systems
Signs represent letters rather than sounds. Cognate consonants (p b, t d, k g etc) are not paired. Vowel sounds are grouped by a b c letters or 'English values'. Alphabet is usually arranged in substantially a b c order. There are usually supplementary lists of nonalphabetic abbreviations

- 53 64 Partly phonetic shorthand systems
- 65 Systems distinguishing substantially the minimum 40 sounds but with majority of signs not paired or grouped by sound relationships J G Cross, etc.
- 66 Systems with majority of the 16 cognate consonants paired but vowels grouped by a b c or 'English value' relationships
- 67 Alfabetic phonetic shorthand systems offering in one text both an alfabetic and a phonetic style
- 68 Syllabic shorthand systems
- 7 **Phonetic shorthand systems**
 Distinct features for identification as signs represent sounds, not letters most or all of the 16 cognate consonants are paired vowels are paired by true sound relations or grouped with diphthongal sounds clearly separated from simple sounds alfabet signs arranged in some logical paired or grouped non-a b c order most often beginning p b t d etc
- 71 **Early phonetic stenographies**
 Using signs neither geometrically nor graphically simple
- 72 **Pitmanic shorthand**
 A J Barnes E B Burnz Ehas Longley A J Marsh W W Osgoodby etc.
 Do not class as substantially Pitmanic those systems containing less than 16 of the 21 consonant stems common to all Pitmanic systems
- 722 **Benn Pitman Old vowel scale systems**
 Class here all shorthand publications of Phonographic Institute Cincinnati
- 723 **A J Graham**
- 725 **Isaac Pitman New vowel scale systems**
 Class here all shorthand publications of Isaac Pitman & Sons
- 728 **Unorthodox Pitmanic adaptations**
- 73 **Geometric disjoint vowel phonetic shorthand systems excluding Pitmanic shorthand 653 72**
 Class here geometric fonetic shorthand systems independent of disjoint or joint vowel distinctions
- 74 **Geometric joint vowel phonetic shorthand systems**
 Godfrey Dewey (Personal shorthand 1922) Emile Dupleix Du an Kimball D P Landsley (Tachigrafy) J M Sloan, M A Chandler (Mrs Atherton)
- 75 **Hybrid (semi-geometric script geometric semi-script) phonetic shorthand systems with geometrically simple signs whether of assumed circular or elliptic origin**
 Class here hybrid shorthand systems in general independent of form of principal signs For definition see note under 653 125
- 751 **Systems with small joint vowel group signs each sign normally representing more than 2 vowel sounds**
 J R Gregg T S Malone
- 76 **Hybrid phonetic shorthand systems with principal signs not geometrically simple whether graphically simple or of compound or complex form**
- 77 **Script or graphic basis phonetic shorthand systems**
 F O Dettman
- 771 **Literal vowel expression systems principal vowel expression by signs of fixed form**

- 653 773 Systems with consonant downstroke signs with both head and foot modified Vowel upstrokes differentiated by length slope or curvature
Julius Bauns Godfrey De Sey (Script shorthand 1936) A W Groote O W Melnka l S he thauer Ferdinand Schrey (1928)
- 775 Symbolic vowel expression systems principal vowel expression by relative position of consonant signs
- 776 Systems with consonant downstrokes dependent on a first or visible line of writing (absolute position)
H A W Stolze
- 777 Systems with consonant downstrokes independent of a first or visible line of writing (absolute position)
F X Gabelsberger Ferdinand Schrey (1887) Stolze-Schrey (1897)
- 778 Systems with consonant signs chiefly upstrokes Vowel signs chiefly downstrokes
- 79 Phonetic shorthand systems of other types dependent on special writing materials or implements etc
- 654 **Telegraf Cables Signals**
Business aspects For engineering see 621.38 for codes see 652
- 1 **Telegraphic instruments**
- 2 Duplex, quadruplex, multiplex telegraphs, etc
- 3 Printing, perforating, dial telegraphs, etc
- 4 Telegraphic construction, poles, wires, conduits, etc
- 5 Cables Submarine
- 6 Telephones
- 7 Alarms, burglar, fire Annunciators, bells
- 8 Speaking tubes Pneumatic tubes
- 9 Signals See also 534.83 Navigation signals 623.7 Military signals
- 655 **Printing Publishing Copyright**
- 1 **History of printing**
- 11 **Origin invention**
- 111 Claims of Gutenberg Mainz
- 112 Claims of Coster Haarlem
- 12 Celebrations anniversaries
- 121 1640 125 1940 (500th anniversary)
- 122 1740
- 123 1823
- 124 1840
- 13-19 **Printing in special countries** Divided like 930-999
- 2 **Type and typesetting**
- 21 **Type founding Tools of the art**
- 22 **Electrotyping and stereotyping etc** Patent blocks
For Photoelectrotyping see 777
- 23 **Patent types logotypes etc**
- 24 **Faces sizes styles Specimen books**
- 25 **Typesetting composition proofreading, distribution**
Artistic composition taste display job work
- 27 **Imposition Locking up etc**
- 28 **Typesetting and distributing machines** Linotype, monotype

- 655 3 Practical printing** *For Calico printing see 667 3*
- 31 **Printing presses**
- 32 **Press work making ready** **Color printing** **Cuts**
Cutting stock
- 33 **Drying hydraulic pressing, etc**
- 35 **Stamps, stamping, etc.**
For stencils see 652
- 36 **Machines paging, numbering etc**
See also 654.3 Printing telegraphs 651 265 Hand numbering machines 652 Typewriters, addressing machines
- 37 **Nature printing** *From plants etc*
- 38 **Printing for blind** *See also 371 91 Education of blind*
- .4 History of publishing and bookselling**
Divided by countries like 930-999
- .5 Publishing and bookselling**
- 51 **Selection of mss**
For freedom of press vs censorship see 323 445 Morals of press 179 1
- 52 **Relations to authors**
Copyright payments prices of mss bought
- 53 **Format**
Size paper type illustrations binding
- 54 **Cost of manufacture**
Retail prices and discounts to dealers
- 55 **Advertising press copies and notices** *See 639 1 Advertising*
- 56 **Retail bookselling** *Prices and discounts to buyers*
- 57 **Subscription book publishing canvassing**
- 58 **Publishing societies**
- 59 **Publishing by governments institutions etc**
- .6 Copyright Literary property**
- 61 **Perpetual or common law right**
Including ethics of copyright
- 62 **Copyright in other matter than books**
Music mss lectures trademarks
- 63 **International copyright**
See also 341 57 International commercial law
- 64-69 **Copyright in special countries**
Divided like 940-999
- 656 Transportation: railroading, etc.**
Running of trains, train and boat timetables Luggage and freight handling Lists of sailings crews and ships dispatch etc
For mechanical interrelations of track and rolling stock see 625 2
For reports, government regulation, rate schedules etc. see 335 f r railroads 336 for canal and river and 337 for ocean and air transport
- 657 Bookkeeping Accounts**

658 Business methods Industrial management

Class here 'management engineering' in broadest sense. By those specializing in industrial management this number may be preferred to 621.7 for material on *management* of engineering plants, if they wish to bring into one place all business management. For material on management of a specific business see notes under 658.9 and 658.92-999.

See also 651 Office economy, for clerical details required by whole organization. 657 Accounting, collecting and auditing. 659.1 Advertising.

When a topic given as a detail under 658 is provided for more broadly elsewhere in the Classification it is recommended that libraries in general use the other number the provision here being primarily for persons engaged in productive business and for those specializing in the subject, for use in arranging not only books and pamphlets, but also correspondence, notes, clippings etc.

REFERENCES TO ALLIED SUBJECTS

016	Bibliography of subjects	510	Mathematics
026.65	Business libraries	530	Physics
150	Psychology	540	Chemistry
174.4	Business ethics	550	Geology
310	Statistics	600-690	Useful arts
325	Immigration	613.6	Hygiene of employment
330	Economics	614.8	Protection of human life from accidents
	See 658.3 for special application in Management	621	Mechanical engineering
332.1	Banks and banking	.3	Electric engineering
336.2	Taxation	7	Mills Factories Engineering works
339.1	Agricultural products	8	Power transmission
2	Mining	86-87	Housing and conveying machinery
.3	Water	.9	Machine tools
.4	Manufactured	628.5	Industrial sanitation
5	Prices	654.6	Telephones
6	Gold	7	Alarms Bells
7	Corporate industries	8	Speaking tubes Pneumatic tubes
.8	Monopolies Trusts	.9	Signals
9	Industrial legislation	655.5	Publishing and bookselling
340	Law	659.1	Advertising
347.4	Contracts	662.6	Fuel
7	Commercial law	693.5	Concrete construction
368	Insurance	720	Architecture
370	Education	744	Mathematic drawing
380	Commerce	760	Engraving
	Communication	770	Photography

SUMMARY

Origin and environment	1	Generalities
	2	Plant
Structure	.3	Industrial economics Personnel
	.4	
Functions	5	Shop management Production
	.6	
	7	Buying Receiving Storing Shipping
	.8	Selling
Kinds of business	.9	Specific industries

BUSINESS MANAGEMENT

Form divisions following may, if needed be attached to any number, provided same combination of figures is not otherwise assigned e.g.
Cost of night work 658 3812002

- 658 001 Statistics
- 002 Quantities and cost
- 003 Contracts and specifications
- 004 Designs and drawings
- 005
- 006
- 007 Laws and regulations
- 008 Patents
- 009 Reports
- .01 Theory, business efficiency
 - Team efficiency (externally directed) factors being a) personal units b) organization c) methods d) appliances
 - Class here general works on business efficiency and those not falling distinctly in 651 4 658 5 or 029
 - See 029 for personal (selfdirected) efficiency factors being a) physique b) mentality c) temperament d) general education e) special training f) methods g) appliances h) personal regimen hygiene i) environment (sanitation light air etc) j) standards ideals moral and social qualifications
- 02 Handbooks forms
- 03 Dictionaries, cyclopedias
- 04 Essays, addresses
- 05 Periodicals
- 058 Year books directories
- 06 Societies fairs, congresses, conventions
- 07 Education training, study teaching
- 08 Tables and calculations
- 09 History Divided like 930-999
- .1 Generalities
 - 11 Promotion
 - *12 Location
 - 113 Developing interest prospectuses
 - 114 Form of enterprise
 - 1 Individual proprietorship
 - 2 Partnership
 - 3 Limited partnership
 - 4 Stock companies
 - 5 Corporations
 - 6 Business trusts
 - 14 Financing raising capital
 - 141 Sources of capital
 - 142 Promoters
 - 143 Promoting combinations
 - 144 Direct sale of securities
 - 146 Basis of capitalization
 - 147 Owned capital
 - Stock common preferred no par value
 - 148 Borrowed capital
 - Short term (notes) long term (bonds, mortgages)

DECIMAL CLASSIFICATION

658 15	Financial management			
151	Control directors trustees	Recievers		
152	Investment of capital funds			
153	Working capital			
154	Budget sistem			
155	Profit and loss			
156				
157				
16	Organization	Reorganization	fergers	Consolidations
162	Holding companies			
163	Affiliated companies			
165	Interlocking directorates			
166	Intercompany transaction			
167	Realization	Liquidation		
168	Reorganization			
17	Expenses			
171	Taxation			
	See also 336 2			
2	Federal taxes			
3	State taxes			
4	Local taxes			
5	Franchise and license taxes			

- 658 2 Plant**
 Suitability of building whether built bought or rented For factory require-
 ments see 621 7 also note under 658 for construction see 690 for architecture
 see 725 2 Business and commercial buildings 725 4 Factories For office arrange-
 ment and equipment see 651 1 2
- 21 Location Site**
- 211 Climatic conditions**
- 212 Land value**
- 213 Labor availability**
- 214 Transport facilities**
 For transport within the plant see 658 231
- 215 Availability of raw material**
- 216 Proximity to market**
- 217 Source of power**
- 218 Site**
 With reference to space air light, soil, slope of ground etc. Includes occu-
 pancy of buildings used partly for other purposes
- 219 Other**
- 22 Material**
- 23 Design**
- 231 Future expansion Provision for growth**
- 232 Relation to product**
- 234 Floor space**
- 235 Storage facilities**
- 236 Office space**
 See also 651 1 Office buildings and rooms
- 237 Service space**
 Rest rooms, coat rooms cafeterias lunch rooms hospitals
- 238 Water supply**
 For watersupply engineering see 628 1 for installation in buildings 696 1
- 239 Sanitation**
 Baths lavatories toilet rooms
- 24 Lighting**
 See also 628 9 for lighting in general 628 32 electric lighting 665 7 gas
 lighting
- 241 Natural**
- 242 Artificial**
- 25 Heating and ventilating Air conditioning**
 See 628 8 for heating and ventilation in general 697 for methods of heating
 and installation

DECIMAL CLASSIFICATION

- 658 26 Power
 - .261 Power generation
 - See also 621 19 Power plants steam engineering 621.31 Electric power pro-
duction 621.312 Electric power plants
 - 262 Power transmission
 - See also 621 8 Power transmission mechanical engineering 621.319 Trans-
mission of electric energy
 - 1 Belting
 - 27 Production equipment
 - 28 Servis equipment Laborsaving devices Safety
equipment
 - 281 Transport Conveyer systems Handling materials
Trucks
 - For conveying and hoisting machinery see 621 86
 - 1 Hand conveyers and hoists
 - 2 Power " " "
 - 3 Gravity " " "
 - 282 Sales equipment
 - 283 Safety devices and equipment
 - Better class in 6 4 8 1 Protection of human life
 - 284 Fire protection and equipment
 - Better class in 614 84 Protection of human life
 - 1 Water pails
 - 2 Hose
 - 4 Automatic
 - 5 Chemic extinguishers
- 29 Other
- .3 Industrial economics Personnel
 - This group provides for the economic aspects. The divisions are the same as under
331 and only the principal ones are given here where desired (e.g. by those who
wish to keep together all material relating to business management) these div-
isions may be subdivided as in table for 331 by adding to 658 3 the figures
following the decimal point in 331; e.g. Arbitration under Economics 331 155
under Industrial economics 658.3155. In general libraries these topics are
better class in 331
 - 31 Relations of capital to labor
 - 32 Remuneration for work
 - 33 Labor of children
 - 34 " " women
 - 35 Work under certain unfavorable conditions
 - 36 Pauper labor Cheap foreign labor
 - 37 Different classes of workers Skilled and unskilled labor
 - 38 Laboring classes
 - 39 Other questions
- .4

BUSINESS MANAGEMENT

658.5	Shop management	Production
.51	Planning	
.511	Job analysis	
1	Instructions	
.512	Routing	
.513	Scheduling	
.514	Dispatching	
.516	Standardization	
1	Of product	
2	• equipment	
.52		
.53	Time records	Production charts
.531	Time cards	
1	Time measuring and recording devices	
.532	Performance records	
1	Predetermined performance charts	
2	Accomplishment charts	
.54	Rate setting	
	For wages see 6,3 32	
.542	Operation studies	
1	Time study	
3	Motion study	
5	Production study	
.543	Time allowances	
.544	Fatigue study	
.55		
.56	Shop organization	
.561	Shop methods	
.562	Inspection	Quality control
.563	Tool room	
	For machine tools see 621 0	
.565	Job assigning	Instructions
.567	Waste	
1	Salvage	Utilization of waste
.57	Research and experiment	
.571	Research	
.572	Experimental work	
.573	Testing	
.575	Product design	
.58	Shop maintenance	
.581	Machinery maintenance	
.582	Tool maintenance	
.583	Emergency repairs	
.59		
.6		

DECIMAL CLASIFICATION

658 7	Buying	Receiving	Storing	Shipping
71	Department organization			
.72	Buying methods			
721	Contract buying			
722	Buying direct from producer			
724	Buying thru salesmen			
.725	Buying by mail			
.726	Buying on open market			
.727	Buying thru bids			
.73	Prices			
74	Orders			
.75	Follow-up			
76				
.77	Receiving			
.771	Checking			
.772	Inspection of goods bought			
2	Methods			
773	Invoices			
.78	Storing and material control			
	See also 658 235 Storage facilities			
.782	Classification and symbolization of stores			
.783	Records	Requisitions	Form-	
784	Stockrooms			
1	Finished parts			
2	Sales stock			
.785	Storerooms			
1	Raw material			
2	Purchased parts			
4	By-products			
787	Inventory			
1	Depreciation			
2	Frequency and times			
3	Forms			
4	Perpetual, automatic			
788	Shipping			
1	Organization			
2	Routine			
21	Instructions			
22	Checking methods			
25	Bills of lading			
26	Express forms			
27	Shipping notices			
4	Packing			
41	Specifications			
42	Methods			
44	Receptacles	Wrappers		
45	Materials			
47	Slips			
8	Transport and delivery			
	Vouchers and receipts			

- 658 8 **Selling**
- 801 Psychology of salesmanship
- 807 Training of salesmen
- 808 Sales analysis
- 81 Department organization
- 811 Sales manager
- 1 Sales submanager, assistant sales manager
- 813 Order clerk
- 814 Billing clerk
- 815 Follow up clerk
- 817 Sales records
- 82 Trade promotion
- 821 Methods of creating demand, of successful competition
 For advertising see 659 1
- 824 Sales letters
- 825 Form "
- 826 House organs
- 83 Marketing product
- 831 Outright sales
- 832 Consignment
- 833 Agency
- 84 Channels of sale
- With goods at hand for delivery*
- 841 Salesrooms
- 842 Markets fairs
- 843 Peddling
- 844 Auctions
- Selling from samples*
- 845 Sample rooms or exhibits
- 846 Commercial travelers (shop to shop store to store)
- 1 Salary
- 2 Commissions
- 3 Expenses
- 847 Canvassers agents (house to house)

- 658.85 Sales Salesmanship
 .855 Display of goods or samples
 .856 Exchanging Rectifying errors
 .857 Approval sistem
 .86 Wholesaling Jobbing
 .87 Retailing
 .871 Department stores
 .872 Mail order houses
 .873 Chain stores
 .875 Commission business
 .876 Brokerage
 .877 Branches Agencies
 .88 Collections
 .881 Cash
 .882 Credit
 .883 Instalments
 .884 Enforcement mesures
 .89 Salesmanship in special business
 For business having special number preferably clast in the number for that business, but may be clast here with subdivision for the business like main classification
- .9 Specific industries
 Business having special number (e. g. insurance business 368) is preferably clast in that number
- 91 Mercantil business not having special number
 May be divided like the whole classification for businesses not covered by 658 92-999
- .92-999 Special material
 May be subdivided like 620-699, e. g. drygoods stores 658 977, or for indexing purposes the method of the Institut International de Bibliographie may be adopted, i. e. the use of the colon between numbers to show the relation between the subjects, e. g. management of a drygoods store 658 677, or an 'r' (for relation) may be substituted for the colon, e. g. 658r677, or the 2d number may be written below the 1st, e. g. 658 With the last 3 methods, which allow 677
 for other kinds of business beside those clast in 620-699, the .9 may be omitted, since the peculiar form of the combination would bring the material into a group which, according to I I B rules, would be arranged immediately after 658, before any of its decimal divisions

659 Other topics

Service to consumers, stile in business, etc.

.1 Advertizing

SUMMARY

- 659 11 General organization of advertizing
- .12 Means of identification and protection
- .13 Visual advertizing* writing, printing, etc.
- .14 Audible "
- .15 Advertizing by display and exhibition of objects
- .16 " " *giving premiums, special price*
reductions, trading stamps, etc.
- .17 Methods of soliciting activity of public
- .18 Advertizing by means of outside parties directly
interested in object of the advertizing
- .19 Other advertizing

.101 Theory

1 General conception, nature and character

12 Purpose aim

Lucrative, nonlucrative

15 Psychology

Psychologic background instincts, emotions, suggestion, etc Appeals historical, human interest and motives (health food, clothing, recreation, etc), educational news (informational, argumentative advertizing) sex direct command dramatic, etc Negative appeal

For full list of form divisions see Table 2 after Relative index

.11 General organization of advertizing

.111 General considerations

Publicity and public relations, etc See also 659 116 Free publicity, 659 17 Methods soliciting activity of public

.112 Advertizing offices and departments

Advertizing agencies

Administration, office manager and clerical department Accounting department financial management, budget, advertizing appropriation commissions credit and collections goodwill Purchasing department space buying, art, engraving and printing buying Service department solicitor, copy writer Research and library department Art department Mechanical production and other departments and personnel. See also 651 Office economy, 657 Accounting, 658 Business methods

659.113

Advertizing campaigns

Preparatory work, planning, determination of advertizing field Scope of campaign, geographic area to be covered (for advertizing in special countries use 659 109) Campaigns limited to specific product, including discussions involving advertizing of product in relation to advertizer and consumer Campaigns for special classes of advertizers, for special classes of consumers Cooperativ campaigns, Tryouts, test or experimental campaigns Use of samples (see also 659 156 Demonstration by samples) Special days or weeks, follow-up, results cost and returns or inquiries, etc

.114

Agencies of distribution

Manufacturers (see also 670 Manufactures), wholesale houses, jobbers (see also 658 86 Wholesaling), exporters and importers (see also 382 Foren trade), commission men; brokers, retail trade department stores, mail order houses, etc (see also 658 87 Retailing) Consumer distribution, etc

.115

Trips, visits, personal persuasion

.116

Free publicity

See also 659 111 Publicity and public relations, 659 17 Methods soliciting activity of public

.117

Competitors' advertizing

.118

Fraudulent

"

.119

Other topics

.12

Means of identification and protection

Discussions of their use in advertizing, right of privacy, etc. Trade names and trade marks, slogans and catch phrases, package goods containers, wrappers, labels, brands, copyrights (see also 655 62 Copyright), patents (see also 608 Patents in general)

.13

Visual advertizing: writing, printing, etc.

Placing in sight of public, advertizing mediums in general

.131

General questions

.132

Advertizements in newspapers, magazines, etc.

1

General questions

2

Text, copy, editing

Contents in general

3

Illustrations, commercial art, pictorial advertizing

Decorativ, humorous, realistic, symbolic, suggestiv; allegoric, fantom, cartoons (see also 741 5 Cartoon drawing), colossal, lilliputian, engravings (see also 760 Engraving), photographs (see also 770 Photography), grafs, etc For posters see 659 134, see also 740 Drawing, esp 741 67 Drawing for commercial advertizing

4

Layout, arrangement, technical details Design

Form and size, display, 'spreads' and inserts, background and borders (see also 745 Ornamental design), paper (see also 676 Paper manufacture), type and typography (see also 655 24 Type faces, sizes and styles), ink (see also 667 4 Ink manufacture), etc.

5

Color

Attention and illustrativ value, etc. See also 655.32 Color printing, 752 Color in painting

- 659.1326 Special types of newspaper and magazine advertisements
Want ads, coupon ads testimonials, etc.
- 7 Placing of advertisements
In newspapers, magazines, directories and yearbooks, programs, etc
- 8 Advertisizing in special kinds of newspapers and magazines
Official or governmental, religious, financial, for foren population; technical trade papers etc., amateur, propagandist, etc
- 9 Other topics
- .133 Direct advertizing: prospectuses, circulars, letters
Mailing lists, letterheads, mailing cards, catalogs, booklets, house organs (see also 658 826 Selling methods), handbills, broadsides, circulars, folders, inserts, inclosures in general Methods of distribution direct house to house distribution, sending by mail mailing regulations For samples and follow-up campaigns see 659 113
- .134 Advertisizing by bil posting: posters, placards, signs, etc.
Outdoor advertizing in general, bilboard regulation (see also 711 68 Bilboard regulation in City planning) Stationary bilboards, advertizing pillars or columns, painted buildings signs, panels, guideboards car cards, etc Technical details, fastening and resistance of signs against inclemencies, etc For electric signs see 659 136. See also 741 67 Poster drawing
- .135 Moving signs
Human signs, sandwich men, advertizing clothing advertizing vehicles use of tires, wheels, etc parades, floats, etc, boats and floating objects aircraft, pyrotechnical methods devices for distribution, projection or forming on vehicles, automatic distributors
- .136 Luminous advertizing, electric signs, etc.
Permanent luminous signs in general Signs illuminated by lamps alternately going off and on, signs projected on screens, ground, clouds, etc (see also 659 138 Devices for impressing advertisements on pavements), movable blinds (abats jour) and screens, transparent luminous signs, transparent mirrors and use of other optical light effects, gas light signs, neon signs, etc, lununescent advertizing, etc
- .137 Other optical advertizing devices
Advertisizing on objects of merchandize (match boxes, furniture, etc) with or without movable parts Advertizing specialities calendars, blotters, photografs, etc. Menu holders and similar supports for price schedules, tariffs, post-cards programs etc. Apparatus for presenting signs or advertisements on revolving disks, leaves, tablets, etc Devices for displaying advertisements, etc on strips, on endless bands, on cylinders or drums with or without movable parts, on prisma. panels, blinds etc turnable or displayd singly, on advertizing toys and novelties, badges, flowers, small flags, etc, on looking apparatus, etc Pennants, banners streamers etc. Theater curtains etc.

659.138

Special optical devices for attracting attention

Decoration, plays of light and transparence, special construction of mechanically moved letters or figures Ad vertizing devices operating by opening or closing doors and windows Devices for impressing advertizements on pavement (see also 659 136 Signs projected on screens, ground, etc) Advertizement writing devices, advertizing posters automatically writing the advertizements Airplane ski-writing Imitations, shows lifelike images for advertizing, moving images moving faces, living models entertainment publicity, dramatic advertizing, moving pictures, plays (see also 659 14 Lectures, etc)

.139

Other topics

.14

Audible advertizing

Direct oral advertizing, spoken advertizements mountebanks, barkers, town or public criers lectures Indirect oral advertizing phonographs, radio broadcasting Audible advertizing other than by word Combined visual and audible advertizing (see also 659 138 Entertainment publicity)

.15

Advertizing by display and exhibition of objects

.151

General questions

Demonstration of processes and apparatus in general

.152

Fairs, exhibits, conventions, etc

Automobile shows industrial shows, etc

.153

Store demonstrations

.154

Advertizing stunts

.155

Traveling displays

.156

Samples and sampling

See also 659 113 Samples in advertizing campaigns

.157

Devices and systems of display

Window and store displays Dealers signs and helps Show windows, show cases, exhibit cabinets devices for sale and distribution of goods without previous introduction of money, small vending shops, sample cases, boxes and cards, packings with advertizing Apparatus for exhibiting cards pictures etc Supports for articles of jewelry, artificial teeth etc Devices for displaying pictures, post-cards, tapestry, etc Label supports and clasps and label holding pins fasten to objects or fabrics, removable or separate, display labels

.158

Canvassing

For distribution of advertizing by trips and personal persuasion see 659 115

.159

Other

.16

Advertizing by giving premiums, special price reductions, trading stamps, etc.

Various methods tending to giv advantage to public

.17

Methods soliciting activity of public

Advertizing competitions lotteries, prize contests, etc See also 659 111 Publicity and public relations 659 116 Free publicity

.18

Advertizing by means of outside parties directly interested in object of the advertizing

.19

Other advertizing

660 Chemic technology

- 1 Periodicals 2 Compends 3 Dictionaries cyclopedias 4 Essays
 5 Periodicals 6 Societies 7 Study and teaching 8
 of chemic technology 9 History

661 Chemicals

- 1 Chemic elements Divided like 545
 2 Acids sulfuric, nitric, etc
 3 Alkalies potash, soda, ammonia
 4 Salts For common salt see 664.4
 5 Ammonia salts
 6 Sulfates and nitrates
 7 Cyanids

662 Pyrotechnics Explosivs, fuels etc

- 1 Pyrotechnics
 2 Explosivs See 622.23 Blasting 623.4 Ordnance
 3 Gunpowder
 4 Fuses percussion caps
 5 Matches
 6 Fuel coal, peat, natural gas, etc
 7 Charcoal coke See also 644.22 Domestic economy 669.8 Metallurgy
 8 Artificial fuel See also 644.2 Domestic economy 669.8 Metallurgy

663 Beverages

See also 178 Temperance 614.34 Adulterations For milk see 637.1

- 1 Fermented
 2 Wine
 3 Brewd
 4 Beer
 5 Distild
 6 Artificial mineral waters soda water
 7
 8 Mixing drinks Barkeepers manuals
 9 Chocolate, coco Commercial mixing of teas, coffees, etc

664 Foods

For Adultations see 614.31 Public health See also 641 Domestic economy

- 1 Sugar, molasses, glucose, etc
 2 Starch, tapioca, sago, etc
 3 Artificial butter, oleomargarin Lard, compound lard
 For butter milk and cheese see 637 Dairy
 4 Salt
 5 Spices Condiments
 6 Yeast Baking powder
 For bread see 641.631 Cookery
 7
 8 Methods of preservation fruits and vegetables
 9 Preservation of meat and fish

665 Oils Gases

- .1 Candles Torches
- .2 Animal oils and fats See also 664 3 Foods
- .3 Vegetable oils and fats
- .4 Mineral oils: paraffin, ozocerite, asphaltum
- .5 Petroleum kerosene
- .6 Lamps See also 644 32 Domestic economy
- .7 Illuminating gases Calcium light
- .8 Other gases
- .9

666 Keramics Glas etc.

- .1 Glas See also 748 Stained glass
- .2 Enamel
- .3 Keramics See also 738 Pottery porcelain
- .4 Clay See also 553 61 Economic geology
- .5 Porcelain
- .6 Stoneware earthenware, pottery
- .7 Bricks Tiles See also 691 4 Building materials 695 3 Roofing
- .8 Artificial stone See also 691 3 Building materials
- .9 Cements Limes Mortars See also 691 5 Building materials

667 Bleaching, dyeing, etc.

- .1 Bleaching
- .2 Dyeing Artificial colors Silk and wool dyeing
- .3 Cotton dyeing and calico printing
- .4 Inks writing inks, indelible inks
- .5 Printing inks
- .6 Paints and pigments See also 698 1 House painting 751 Fine arts
- .7 Varnishes Polish Lacker See also 698 3 Varnishing
- .8 Japan Blacking
- .9

668 Other organic chemical industries

- .1 Soap
- .2 Glycerin
- .3 Glue
- .4 Gums and resins
- .5 Essences, perfumery, essential oils and ethers, etc.
See also 646 7 Toilet
- .6 Fertilizers See also 631 8 Agriculture
- .7 Distillation: coal tar, etc.

669 Metallurgy and assaying

History of metals goes here, not in 553, 622, nor 672

- .1 Iron and steel
- .2 Gold and silver
- .3 Copper
- .4 Lead
- .5 Zinc
- .6 Tin
- .7 Mercury and other metals
- .8 Fuels and furnaces Slags
- .9 Assaying

670 Manufactures

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood etc manufactures and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject: e.g. a steam engine is certainly made of metal, but its manufacture should go under 622, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood-churns with the dairy 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether grouped by use or material: if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better, e.g. bells are for scores of distinct uses: but their manufacture is a unit, but all churns are for the dairy.

671 Articles made of metals

672

673

674 Lumber and articles made of wood

For cabinet making see 684. For lumbering as a feature of forestry see 634.9

675 Leather and fur and articles made of them

For saddlery shoemaking gloves belts trunks etc see 685

676 Paper and articles made of paper

677 Textil manufactures

SUMMARY

- 028 General tecnic
- .1- 5 Industries based on special fibers
- .1- 4 Spinning mil industries
- .1 Vegetable fibers in general
 - Flax and similar fibers: hemp, jute, etc.
- .2 Cotton and similar fibers
- 3 Animal fibers in general
 - Wool and similar fibers
- .4 Silk " " " : rayon, etc.
- 5 Industries of other fibers
- .6 Special fabrics
- .7 Cordage, trimmings, etc.
- .8 Auxiliary industries

01- 09 For full list of form divisions see Table 2 following relativ index

- 028 Tecnic
 - For general discussions only Tecnic applied to manufactures from special fibers should be clast in 677 1- 5 028 and subdivisions may be used as form divisions applicable thruout 677 as needed where other provision has not been made
- 2 Processes
- 21 Preliminary processes, preparation of fibers
 - Cleaning, seed removal, rippling, ginning, separation of fibers, retting, breaking, scutching, oiling, etc
- 22 Spinning, twisting, doubling, cabling, etc
 - Reeling, spooling throwing, winding in skeins or balls or on bobbins, boxing, etc
- 23 Classifying and numbering yarns and threds
- 24 Weaving and braiding
 - Spooling, warping, sizing or dressing finishing, calendering, singeing, etc
- 27 Chemic processes bleaching, dyeing, etc See also 667 Chemic tecnology
- 3 Raw materials 4 Secondary materials Chemicals, etc
- 5 Machinery Apparatus Tools
 - Corresponding to processes indicated under 677 0282
- 51 For preliminary processes and preparing fibers
 - Pickers, beaters, boilers, dryers, breakers, combs, cards, willows, drawing frames, hackles, oilers, etc
- 52 For spinning, twisting, doubling, cabling, etc
 - Mules, jennies, throstle frames, etc.
- 53 For classifying and numbering
- 54 For weaving and braiding
 - Winders, warpers, dressers, looms, finishing machines, etc
- 57 For chemic processes

- 677 0286 Textile products
61 Of spinning warp and weft (filling) yarns
 Carded, combed, thrown, etc. for weaving
62 Of twisting, doubling and cabling
 Double yarn, sewing thread in skeins, balls, boxes, on
 bobbins, etc. for knitting, embroidery, etc
64 Of weaving and braiding See also Special fabrics 677 6
67 " chemie processes
7 Tests of yarns, threads and fabrics
 For accepting or rejecting
71 Chemie 73 Resistance
72 Microscopic 74 For moisture, etc.
8 Low grade products, byproducts, wastes
9 Substitutes, etc

677 1-5 Industries based on special fibers

1-4 Spinning mill industries

.1 Textile fibers of vegetable origin, q. v. in 633 5

Flax and similar fibers Spinning mill industries only. For other
textile uses see 677 54 Vegetable fibers not spun, 677 71 Cordage

- May be divided like 677 028 { 11 Flax industry
 May be divided like 677 028, e.g. 677 1152 Spinning spindlers
 and cutters, 677 116 Flax industry products Linen, etc.
12 Hemp industry 13 Jute industry
14 Sunn hemp and other hemplike and jutelike fibers, q. v.
in 633 56

Spinning mill industries using various fibers from lignified
sclerenchyma of dicotyledonous stems, e.g. urena, roselle, etc
fibers

- 15 Ramie or China grass and similar fibers
 Spinning mill industries using various fibers from nonlignified
 sclerenchyma of dicotyledonous stems, e.g. yercum, bauhinnia,
 etc fibers

- 16 Leaf fibers, q. v. in 633 57-58

- 17 Stem fibers in general

- 18 Fruit " " " , e.g. coir or coconut fibers, etc

- 19 Other types of vegetable fibers

Bark, root, peat, moss seaweed etc fibers

- .2 Cotton and similar fibers Vegetable hairs

- May be divided like 677 028 { 21 True cotton industry
 May be divided like 677 028, e.g. 677 218 Low grade cotton
 products and waste cotton wadding, carded cotton, etc
22 Seed hairs in general
 Typha wool industry etc
.23 Fruit hairs kapok, silk cotton, etc

- 677 3 Textil fibers of animal origin**
 Wool and similar fibers Spinning mil industries only For other textil uses see 677 56 Animal fibers not spun 677 63 Felting and hat making
- May be divided like 677 028 {
- 31 **Sheep wool industry**
 May be divided like 677 028 e.g. 677 313 Raw materials sheep hair flecks flos etc
 - 32 **Llama wool industry**
 Alpaca guanaco vicuna, etc.
 - 33 **Goat hair industry**
 Cashmere mohair, etc.
 - 34 **Camel hair industry**
 - 35 **Rabbit " "**
 - 36 **Reworkt wool industry**
 - 363 **Reworkt wool yarn, mungo or felted rags, shoddy or unfelted rags**
 - 37 **Vegetable wool industry**
 - 371 **Pine wool** 372 **Peat fiber wool**
 May be divided like 677 028 e.g. 677 37121 Preliminary processes pine needle distillation 677 3718 Low grade products pine needle essence etc
 - 38 **Spinning industries using various animal hairs fur, bristles etc**
 Dog cat, horse kangaroo, etc. hair
 - 39 **Spinning industries using other types of fibers of animal origin**
 Fibers from fethers internal organs, etc.
- 4 Silk and similar fibers**
 Spinning industries only For other textil uses see 677 6 Industries of special fabrics
- May be divided like 677 028 {
- 41 **Mulberry silkworm (Bombyx) industry**
 May be divided like 677 028 e.g. 677 4161 Organzine tram and other silk spinning products 677 418 Low grade products silk wadding flos etc.
 - 42 **Other bombycid silk industries**
 Corah pongee tussah (tussor) silk industries Wild silk in general
 - 423 **Raw materials**
 Silk from oak silk worms Japanese (yamamai), Chinese (pernyi) Indian (mylitta) silk, etc
 - 43 **Silk from nonbombycid caterpillars**
 - 433 **Raw materials**
 Silk from caterpillars feeding on the alanthus, castor oil plant etc
 - 44 **Silk waste or spun silk industries**
 - 446 **Bourrette schappe and other silk waste fabrics**
 - 45 **Other natural silk fiber industries**
 452 & 453 may be divided like 677 028
 - 452 **Silks from insects without cocoons silk spiders, etc**
 - 453 **Molluscosus silks byssus silk, etc**

- 677 46 Artificial or synthetic silk industries
 Cellulose silk or rayon
- 461 Nitrocellulose fibers collodion silk
- 462 Cupramonia "
- 463 Viscose fibers cellulose dissolved in carbon disulfid
- 464 Cellulose acetate fibers
- 465 Other cellulose esters
 Formate ethyl cellulose etc
- 468 Artificial silk from various cellulose solutions
 With concentrated alkalin hydroxid or zinc chlorid base
 with solutions of various concentrated salts acid solu-
 tions etc.
- 47 Non-cellulose synthetic fibers
- 472 From organic albuminoid or protein sources
 Casein fish zein (maiz) soybean etc
- 473 From inorganic protein sources
 Polymeric amids coal etc Nylon
- 474 From gums or resins
- 5 Industries of other fibers
 Special fabrics or network obtained by braiding or similar opera-
 tions rather than by spinning and weaving proper including
 general processes of corresponding industries e.g. basketry
 sparterie etc. See 677 6 for fabrics made by other special
 processes but using ordinary textil fibers e.g. felts tapestries
 laces etc. 677 7 for cable and rope making and fancy trimmings
- 51 Natural mineral fibers
 Asbestos amianthus incombustible fabrics etc.
- 52 Artificial mineral fibers
 Glas filaments woven glas mineral wool slag wool etc
- 53 Metal yarns fabrics and nets
 Perforated metal sheets and expanded metal fabrics from gold
 silver etc metal cloths and strainers wire gratings stamp
 or cut metal network etc
- 54 Vegetable fibers not spun braiding and matting processes
- 541 Straw and similar materials
 Thatch straw mats etc
- 542 Sparterie sparto (alfa) pandanus lindenbast etc
- 543 Osier or willow with industry Basketry
- 544 Rushes industry rush matting chair caning etc

- 677.545 Bamboo and rattan industry: matting, etc.
 .546 Fibers obtained as fine chips or shavings
 Rice straw shavings, wood wool or pine chips, etc.
 .547 Leaf fibers for braiding
 .548 Fruit " " "
 .549 Other types of vegetable fibers for braiding
 .55 Elastic fibers and fabrics
 Rubber weaving, etc. For rubber manufactures in general
 see 678
 .56 Animal fibers not spun
 Used for braiding and similar processes. Fabrics from hair
 or bristles, haircloth; fethers, intestinal fibers (see also 677.74
 Catgut), whalebone, etc.
 .57 Industries using paper fibers, strips, etc
 .6 Industries of mixt or special fabrics
 Using various fibers in combination and manufactured by special
 processes. Manufacturing industries using the elementary yarns
 or cloths mentioned in the preceding groups
 .61 Mixtures Composit fabrics
 Plain; figured: damask, brocaded, flowerd; upholstery
 fabrics; cloth of gold; reversible, double warp and pile fabrics:
 rep, plush, velvet; imitations of fur, etc.
 .62 Fabrics woven, fuld, felted or napt
 Flannels, swanskins, blankets, lap robes, counterpanes, cover-
 lets, etc.
 .63 Felts proper Nonwoven felts
 Felt carpets, felt hatmaking, etc. For hatmaking in general
 see 687.4
 .64 Tapestry and carpet industry
 .643 Woven carpet
 Carpet industry in general. For felt carpets see 677.63
 .65 Openwork fabrics. Gauz, grenadine, etc.
 653 Lace industry .655 Guipure lace
 Point and em- For upholstery lace
 broidery lace see 677.76 Trimmings
 .654 Tulle industry
 .66 Mesht goods with chain and knotted stitches
 Industries of knitting, crocheting (crochet lace), tatting,
 netting (game bags, fishnets), etc. For these processes in the
 home see 646 26-27
 .67 Industries weaving fabrics in tubular or conic form: seam-
 less sacks, etc.
 .68 Waxt or glazed fabrics
 Gumd gauz, oilcloth, moleskin, glazed felt, linoleum, kamp-
 tulicon, oilsilk, etc.

- 677 7 **Cordage, trimmings, etc**
 Industries using textil and metal fibers for manufacturing products other than cloth matting openwork and mesht fabrics etc
- 71 Vegetable and animal cordage hemp flax silk wool etc
- 72 Metal cordage and cables Dynamic cables
 For mecamical transmission of power etc
- 73 Conducting wires and cables
 Telefone telegraf submarine etc cables
- 74 Catgut and similar cords
 Silk silverd etc cords for music instruments knife grinders rackets whips hats saddle bows clocks etc
- 75 Cords braids lacings ribbons etc in general
- 76 Trimmings Passementerie
 Galloons fringes beading etc for furniture carriages uniforms etc
- 77 Embroidery industry in general
- 8 **Auxiliary industries**
 Manufacturing cards for Jacquard looms etc
- 678 **Rubber and similar products and articles made of them**
- 679 **Celluloid and other**

680 Mechanic trades Amateur manuals

For building trades see 690

681 Fine mechanism Instruments of precision Watch and clock making

Catalogs of miscellaneous instruments Class special instruments with their subjects

.1 Apparatus with wheels or motor mechanisms

11 Horology Watch and clock making

See also in astronomy 529.78

111 Clock systems

1 Ancient clocks

Sundials water clocks clepsydras

112 Constituent parts of clocks

Making and repairing Tools

1 Movements with weights, with springs Barrels

2 Wheels Gears

Hour wheels minute wheels

3 Striking devices bells, carillons

4 Escapements Balance wheels Springs Pendulums

Regulating devices

5 Bearings friction and lubrication

7 Adjusting Regulating

8 Repairing

9 Watchmakers implements

113 Clocks

See also 681.115 Pneumatic clocks 681.116 Electric clocks

1 House clocks

For clocks considered as artistic furniture see 749

2 Astronomic clocks

3 Public " Tower clocks

Strassburg clock

4 Musical clocks

5 Drawing room clocks

6 Travel clocks

7 Alarm "

114 Watches Chronometers

For watches considered from viewpoint of artistic watchcases see 739

1 Watches for ordinary use

2 " with second hands

3 Repeater watches

4 Chronometers for ordinary use

5 Marine chronometers

115 Pneumatic clocks

1 Motor clocks Canalization

2 Receiving clocks public or private

116 Electric clocks Standard clock systems

1 Distributing regulators

2 System for transmitting time at a distance

3 Systems of direct transmission

Minute receivers

- 681 117 Curiosities of clockmaking
- 1 Mysterious clocks
- 2 " watches
- 3 Automaton clocks
- 118 Time reckoners
- Chronographs and other apparatus for measuring time
- 1 Reckoners by seconds or fractions of seconds
- Stop watches
- 2 Tower reckoners
- 3 Metronomes
- 4 Chronographic reckoners Mesurers of velocity
- 5 Reckoners of interruption
- 6 Alarm reckoners
- 7 Time clocks
- 119 Other horology apparatus
- 1 Portable sundials
- 2 Hour glasses
- 12 Reckoners of consumption
- 121 Water meters
- 122 Gas "
- 124 Vehicle reckoners Taximeters
- 13 Automatic distributors or producers of various effects
- 131 Distributers of objects prepared in advance
- 132 Distributers of objects transformed by the apparatus
itself
- Apparatus for printing metal labels
- 133 Apparatus for producing images and fotografs Pro-
jection lanterns
- 134 Moving picture apparatus
- 135 Sound producers Automatic fonografs
- See also 681 8432 Fonografs construction
- 14 Calculating counting and registering machines
- Tho not all wheel machines there may under this head be brought together
calculating machines of all types Manufacture of these machines may be
classified here or under numbers indicating the use
- 141 Arithmetic machines Adding machines Arith-
mometers
- See also n office economy 651 2642
- 142 Machines for solving equations
- See also Equations in Relative index
- 143 Logarithmic instruments
- Calculating rulers and circles See also Mathematics 510 8
- 144 Abacus and apparatus for graphic tables
- See also Arithmetic 511 2 and Office economy 651 2645
- 145 Machines for money counting Automatic safes

- 681 15 Toys and apparatus with automatic mechanical movements
 See also 681 82 Automatic musical instruments
- 151 Automations imitating human actions
- 152 Automatic animals
- 153 Complex toys imitating actions of persons and animals
- 154 Automatic machines and apparatus moving on the ground
 Carriages wagons
- 155 Automatic animals and apparatus moving in water
 Fish boats
- 156 Automatic animals and apparatus moving in the air
 Flying birds balloons
- .2 Scientific instruments of wood or metal for measurements and observations
 Manufacture of the various instruments used in pure and applied science to observe ascertain measure or register may be classed with the use of those instruments in 500-600 or (except those provided for under 631 3 7) may be brought together here the special kind of instrument being indicated by class number for its use following a colon e g 681 2 534 Manufacture of acoustic apparatus 681 2 617 Manufacture of surgical instruments 681 2 631 3 Manufacture of farm machinery or 25 26 may be divided like 500-600
- .3 Apparatus for glass blowing
 Glassblowing or enameling with blowpipe or lamp See also 666 1 2
 Special instruments may be classed under number for their use or may be brought together here as noted under 681 2
- .4 Optical instruments Optician's trade
 See also 522 Practical astronomy 535 8 Applications of optics
 As noted under 681 2-3 manufacture of instruments may be classed under number for their use or may be brought together here and subdivided by number for use e g 681 45222 Manufacture of telescopes
- 41 Various kinds of optic instruments
- 411 Spectacles Eye glasses
- 412 Instruments for distance observation
 Opera glasses spy glasses
- .413 Magnifying glasses
 Reading glasses microscopes
- 414 Spectroscopes
- 415 Photometers
- 416 Polarimeters
- .42 Optic glasses
 Oculist's glasses plate glass mirrors prisms lenses
- 43 Frames and metal parts
 Optic screw
- 44 Setting and adjusting
- 45-47 divided like 500-700

681 6 Machines for writing, shorthand, composing, printing, numbering, stamping, effacing

For description and use of these machines see the following numbers under which the manufacture also may be classed if preferred 652 Writing machines, typers
653 Shorthand 655 2-3 Printing 667 3 Calco printing 760 Engraving
775 Photolithography

61 Writing, shorthand and composing machines

611 General questions

1 Universal keyboard Ideal keyboard Manipulators

2 Mechanical transmission
 Compressed air transmission electric transmission

3 Inking by ribbon, by pad

612 Ordinary typewriters

 With hidden writing with visible writing

1 Machines with keyboards and separate levers hidden writing

11 With complete keyboard and single letter on a key

12 " combined " " 2 letters " " "

13 " " " " " 3 " " " " "

2 Machines with keyboards and separate levers visible writing
 Subdivided like 681 6121

3 Machines with keyboards and type wheels, segments or barrels

4 Hand operated machines

41 With type on cylinders

42 " " " disks

43 " " " rule

44 " " " frame

5 Other kinds of writing machines with mechanical movement

6 Machines with transmission by compressed air

7 " " " " electricity

8 Accessories of ordinary writing machines

 Tables etc

613 Machines for special kinds of writing

1 For embossed characters

 Writing machines for blind See also 655 38 Printing for blind

2 For conventional characters

 Perforating machines

3 For shorthand

4 " distance writing

 Telescriptor

614 Writing and composing machines for printing

DECIMAL CLASSIFICATION

- 681 62 Copying and printing presses
 - 621 Hand copying and printing presses
 - 1 Copying presses
 - 2 Printing "
 - 622 Hand typographic presses
 - Old wooden presses iron presses
 - 623 Typographic presses with pedals
 - 624 Mechanical typographic presses
 - 1 For printing in black
 - 2 " " " colors
 - 625 Special presses for various kinds of printing
 - 1 For copper plate printing
 - 2 " lithographic and zincographic printing
 - 3 " fotografic printing
 - 4 " chromographic "
 - 5 " printing wall paper
 - 6 " " fabrics

See also 667.3 Calligraphy
 - 626 Machines for stamping, numbering, dating effacing
 - 1 For stamping and labeling
 - Moist stamps dry stamps. Composing sticks Inkpads Inkpad boxes
 - 2 Numbering machines and stamps
 - Automatic numberers Frame for numbering
 - 3 Dating machines
 - Date stamps movable perpetual
 - 4 Effacing and perforating machines
 - 63 Apparatus for telecommunication
 - Machines and apparatus for transmitting at a distance signals writing or words
 - See also in engineering 621.38 Electric communication in communication 654
 - Telegraph cables signals
 - 631 For short distance transmission of various acoustic or mechanical signals
 - See also in engineering 621.386 Telephone instruments in offic economy
 - 631.262 Oral communication
 - 1 By compressed air transmission
 - See also in engineering 621.53 Compressed air transmission
 - 2 By compressed water transmission
 - 632 For fotografic transmission
- .7 Machines for manual labor and involving instruments of precision
 - Special machines may be classed under number for their use or may be brought together here and distinguished as noted under 681.2

681 8 Music instruments

Manufacture of music instruments is preferably classed in 781 91 Music instruments in general 786-789 special instruments but may be kept here classing under 681 81 the ordinary musical instruments, and under 681 82-84 some of the less important and the accessory instruments

81 Ordinary music instruments

See note under 681 8 If manufacture of ordinary instruments is classed here this number may be subdivided like 789 e g 681 8171 Manufacture of violin

82 Automatic and independent instruments**821 Street organ****822 Music boxes****823 Mechanical pianos and organs****824 Orchestrions****825 Song birds and instruments imitating song and speech****83 Semi automatic adapted to ordinary instruments****831 To keyboard instruments**

Melotrops pianistas colans etc

832 To stringed instruments**833 " wind "****834 " percussion "****84 Instruments registering and reproducing musical compositions and voices****841 Merely registering movements of piano keys**

Melographs

842 Merely registering sounds**843 Registering and reproducing sounds****1 Talking machines****2 Phonographs Gramophones**

See also 681 135 Automatic phonographs

21 Cylinder phonographs**22 Disk "****682 Blacksmithing****1 Horseshoeing**

See also Zootechny 636 6834 Shoeing

683 Lock and gun making**684 Carriage and cabinet making Furniture and furnishings**

Furniture See also 749 Artist c furniture 694 7 Fine joinery interior finish

Highway vehicles for separate tractors other animal or motor For motor vehicles see 639 2

685 Saddlery Belt, shoe, glove-making, etc. Travel equipment

Saddles and harnesses shoes, and travel and camp equipment. See also 675 Leather industry

- .1 Saddlery Harness making
- .2 Beltmaking
- 3 Shoemaking Wooden-shoe trade
 - 31 Shoemaking properly so-called
 - 311 Ancient shoes Theater shoes
 - 312 Ordinary modern shoes of leather and fabric
 - 314 Various special shoes
 - Slippers, gaiters etc
 - 32 Wooden shoe making
 - 36 Footwear and special apparatus for moving on ice or snow
 - 361 Ordinary skates
 - 362 Roller skates
 - 363 Snow shoes Skis
 - 37 Special apparatus for moving on the ground
 - Sticks
 - 38 Walking apparatus for infirm and wounded
 - See also 617.92 Orthopedic appliances
 - 381 Crutches
 - 382 Wooden legs
- .4 Gloves Mittens
 - 41 Gloves of common leathers
 - 42 Long leather gloves Evening gloves Ladies fancy gloves etc
 - 43 Furred and lined leather gloves
 - 431 Fur gloves
 - 432 " mittens
 - 433 Stuffed gloves Boxing gloves
 - 434 Armored gloves Gantlets
 - 44 Gloves of woven textiles, cut and sewed Ribbed gloves of silk or wool
 - 46 Gloves entirely woven Knit gloves of cotton flax, wool silk etc Fillet silk gloves
 - 47 Mittens Mitts
 - 48 Glove fastenings

- 685.5 **Travel and camp equipment**
- 51 **Travel articles of leather and fabrics**
- .511 **Trunks**
Of wood and fabric of leather of wicker and leather
- .512 **Valises Portmanteaus**
- .513 **Overnight bags**
- .514 **Saddle bags Game bags Cartridge boxes**
- .516 **Canteens**
- 517 **Hampers for excursions and picnics**
- 53 **Camping articles**
- 531 **Tents and knock-down huts**
- 532 **Temporary shelters**
- 533 **Folding beds**
- 534 **Hammocks Hanging seats**
- 535 **Portable seats Folding seats**
- 536 **Other tent furnishings**
Tables stands
- 537 **Seats with canopies**
- .6 **Articles for public or society games**
- 686 **Bookbinding**
- 687 **Clothing industries**
See also 685 2-4
- .1 **Readymade clothing Sewing Tailoring**
Outerwear
- 11 **Men's clothing**
- 12 **Women's "**
- 13 **Children's "**
- 15 **Uniforms and special garments**
Civil military ceremonial religious
- .2 **Underwear**
- .3 **Hosiery**
See also manufactures 677 661 Knitgoods
- .4 **Hats**
- 8 **Auxiliary industries**
Fasteners buttons hooks eyes snaps etc.
- 688
- 689 **Other trades**

690 Building

For Architectural construction see 721

- 1 Theories of construction 2 Compendia manual 3 Dictionaries cyclopedias
 4 Essays lectures 5 Periodicals 6 Societies exhibitions
 7 Education study training apprenticeship tools and their use (for use of special tools see special trade) 8 Collections patents inventions
 9 History of building construction

691 Materials Preservative processes

Water proofing See also 620.1 Strength of materials

- 1 Wood Creosoting, etc
 2 Natural stone Paraffining, etc
 3 Artificial stone Concrete
 4 Bricks Tiles Other ceramic products
 5 Lime Cement Plaster
 6 Glass
 7 Iron Steel Antirust processes
 8 Other metals
 9 Other materials

692 Plans Specifications, etc

- 1 General drawings
 2 Detail drawings
 3 Specifications
 4 Contracts Agreements Bids Advertisements
 5 Estimates Quantities Costs
 6 Superintendence
 7 Supervision of accounts
 8 Professional services Fees Commissions
 9 Building laws Liabilities of architects, owners, and contractors

693 Masonry Plastering Fireproofing, sound-proofing, etc.

- .1 Stone construction
 - 11 Bonds of stone work
 - 12 Cutting and dressing of stone
 - See 515 8 Stereotomy 736 Stone carving
- 2 Brick construction
 - 21 Bonds of brick work
 - 22 Adobe or sundried brick etc
- 3 Terra cotta construction Tile
 - 4 Hollow tile and porous terra cotta construction
- .5 Concrete and beton construction
- 6 Plastering
 - 61 External plastering and stucco
 - 62 Internal plastering
 - 63 Ornamental plaster work
 - 64 Scagliola
 - 65 Wooden lath
 - 66 Metal lath (Wire etc)
 - 67 Mineral wool linings etc
- 7
- 8 Fireproofing
- 9

694 Carpentry joinery, stairbuilding

- 1 Wood construction, general
- 2 Joints of woodwork Framing
- 3 Strengthened beams
- 4 Posts Columns See also 721 31
- 5 Panel and lattis construction
- 6 Joinery, general For Fin shing varnish pol sh etc see 698 3
- 7 Ornamental joinery Cabinet work
 - For cab netmaking see 684
- 8 Stairbuilding See also 515 83 Stereotomy
- 9 Other branches See also 721 87 89

695 Roofing. slating, tiling For roof construct on see 721 5

- 1 Wood shingle
- 2 Slate
- 3 Tile
- .4 Metal tin, copper, led, zinc
 - 5 Iron
- 6 Asphalt Tar Concrete (Melted)
- .7 Felt Asbestos Paper (In rolls)
- 8 Textil duck, canvas
- 9 Thatch and other coverings

696 Plumbing Gas and steam fitting, etc

- 1 Plumbing For principles of sanitation see 628
- 2 Gasfitting
- 3 Steamfitting
- 4 Rivets and riveted joints
- 5 Screws and screw joints
- 6 Rust or calked joints
- 7 Anchors Band irons
- 8 Other branches
- 9 Plumbing laws See also 614 Public health

697 Heating and ventilation

See also sanitary engineering 628.8 home economics 644 For lighting see 628.9

- 1 Fireplaces
- 2 Stoves
- 3 Furnaces
- 4 Hot water, high and low pressure
- 5 Steam, high and low pressure
For boilers see 621.184 for power plants see 621.19
- 6 Gas coal gas, water gas, natural gas
- 7 Electric and other methods
- 8 Smoke flues and chimneys
- 9 Ventilation air ducts, conduits, fans, air conditioning

698 Painting Glazing Paperhanging Tapestry

- 1 Painting Oil
Distemper and fresco
- 2 Varnishing Polishing
- 3 Other modes of protection
- 4 Glazing For stained glass see 748
- 5 Paperhanging
- 6 Textile hangings tapestry
For tapestry design see 745
- 7 Relief work incrusta, stamped leather, etc
- 8 Other branches

699 Carbuilding

Railway and tramway cars passenger and freight with or without motors For highway cars see 629.2

Fine Arts

Recreation

700 Fine arts

For complete list of form divisions see Table 2 after Relative index
 Collected writings on Fine arts in general are to be classed in 704.9
 divided like 08 as given in Table 2

- 701 Philosophy Theory
 - 1 General conception Nature and character
 - Definition limits and extent
 - .15 Psychology of art
 - Imagination in art, etc
 - .16 Style
 - General characteristics of style in art Special styles
impressionistic, surrealist, etc
 - .17 Esthetics
 - Beauty, sublimity, grace proportion symmetry, rhythm,
picturesqueness grotesqueness (the comic) ugliness taste, etc
 - .18 Criticism in art
 - .8 Technical methods Models
- 702 Compends Handbooks Outlines
- 703 Dictionaries Cyclopedias
- 704 Essays Lectures Addresses Collected works
 - .9 Collected works
 - Divided like 08 in Table 2 after Relative index
 - .94 Iconography Cartography
 - Albums atlases portfolios Include here general dis-
cussions of special objects as represented in art
 - 941 General questions
 - 942 Human figures Portraits
 - Nude, clothed or draped figures groups genre,
historical, etc
 - 4 Women 5 Children
 - See also 136.757 Child study

710 Landscape and civic art

For complete list of form divisions see Table 2 after Relative index

SUMMARY

- 711 Regional and city planning
- 712 Landscape architecture Landscape gardening
- 713 Landscape construction and maintenance
- 714 Water features
- 715 Vegetation Trees, shrubs hedges
- 716 Herbaceous plants
- 717 Structural elements
- 718 Cemeteries Monuments Mausoleums
- 719 Natural landscapes Scenery

711 Regional and city planning

The intelligent control and guidance of the physical conformation growth and alteration of cities towns [districts] or considerable parts thereof considered in their entirety (F L Olmsted)

For general description of special cities see 913-919 711 093-099 may be used for city plans and descriptions of individual cities from standpoint of city planning For form divisions see Table 2 after Relative index

SUMMARY

- 1 General questions
- 2 National and international planning
- 3 Regions Regional planning
- 4 Localities cities, towns, villages
- 5 Districting Zoning
- 6 City building
- 7 Transportation system
- 8 Conduits Wires
- 9 Other topics

.1 General questions

City planning movement municipal improvement, civic betterment movement etc development plans etc. See also 712 1 Landscape improvement movement

11 Stages of development

Investigation of stage of development, civic development surveys

711.12

Types of development Professional practice

Spontaneous v. planned development purpose, activities, progress, etc., organization (see also 711.173 Administrative agencies), publicity, action by community Data collection and presentation Making, composition and presentation of city plans economic and esthetic design, etc. Direction or supervision of construction and maintenance Special aspects of city plans general considerations and broad relations social aspects, social ethics, etc. (see also 711.13 Demography) esthetic aspects, civic beauty, etc. (see also 711.65 Color of buildings), historical aspects, truth to historical type, preservation of individuality and historical features (see also 711.52 Archeologic centers 719.353 Historical reservations)

.13

Demography Population Social conditions

Man made environment, growth and changes of population. Centralization, cityward movement v. decentralization, countryward movement Concentration in high buildings congestion of population (see also 711.552 Density in commercial and industrial centers, 711.65 Structures according to height) Housing (see also 331.833 Housing of laboring classes, 711.48 Residential cities, 711.58 Residential districts, 711.667 Residences) Industrial conditions Transportation, circulation (see also 711.7 Transportation system) Public health and safety, sanitation, defense (see also 614 Public health in Medicine, 623 Military engineering, 628 Sanitary engineering) Public education (see also 370 Education, 711.666 Educational buildings) Public recreation (see also 711.52 Open spaces, 711.558 Recreation areas 711.668 Buildings for recreation 712-719 Parks and gardens, 790 Amusements) See also 312 Demographic statistics 711.12 Social aspects of city plans, 711.423 Types of cities according to ethnographic character

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Economics

Economic resources, land economics and policy (see also 333 Land in Economics) Advantages or disadvantages of situation, etc. Land valuation, use of land, effect of taxation on land development Economics of land subdivision and arrangement (see also 711.63 Blocks and lots) Natural conditions and environment topography city sites (see ————
rally, 7
parks

711.422 Types of cities according to climate) soil geologic character and type subsoil fertility, etc., natural resources, mineral wealth water power, etc. Artificial topography removal of hills, filling low or submerged areas, reclamation. Commercial and industrial opportunities, etc.

15

Financial conditions

Municipal finances in relation to city planning See also 352.1 Local government finance

- 711 16 **Changes involved in pland development**
 Arrangement and rearrangement evacuation and destruction of districts slum clearance changing purpose of buildings d stricts etc rehabilitation extension See also 711 52 Civic unity
- 17 **Legislation and administration**
 Legal and administrativ conditions limitations of existing legislation etc
- 172 **Legislation**
 Creating or empowering administrativ agents Laws relating to public and private properties rights etc Acquisition of land and other privately ownd property and utilities Creation of easements rights of way etc
- 173 **Administration**
 Public agencies (see also 352 5 Municipal public works) relation of national state and municipal agencies etc existing public agencies departments etc of city engineers public works parks harbors ports etc specially created public agencies city planning departments and commissions art commissions etc public consultation and employment of experts (including discussions covering both official and unofficial consultation of experts) Private agencies public service corporations See also 711 13 Agencies promoting city planning movement
- .2 **National and international planning**
 Planning for units larger than regions
- .3 **Regions Regional planning**
 See also 711 582 Rural planning
- 31 **General questions**
 May be divided like 711 1 e g 711 314 Economic aspects of regional planning
- 32 **Regions according to external aspects**
 Uncultivated forested (see also 719 332 Forest reserves) agricultural or cultivated mining and quarry industrial or manufacturing sghtseeing and recreation compost etc regions See also 711 5 7 zoning
- 33 **Regions according to political status and size**
 Planning for large and small regions state and interstate planning counties political districts etc For national and international planning see 711 2
- 35, 37-38 **may be used and divided like 711 5, 7-8**
 E g 711 35 Regional zoning 711 352 Regional design etc
 In general prefer 711 5 7-8

- 711.4 **Localities: - cities, towns, villages**
 Types of city plans
- .41 **General questions**
 Types of plats, group forms See also 711 63 Blocks and lots
- .412 **Informal grouping**
 Radiocentric, curvilinear, scattered, cowpath, 'chemin des ânes', rectilinear, composit
- .413 **Formal grouping**
 Gridiron, chessboard, Penn plan, Roman camp, gridiron and diagonal, L'Enfant plan, radius and round-point, arterial and radial, spider web
- .414 **Military and naval towns Fortified towns**
 Strongholds
 War camp sites See also 623 Military and naval engineering, 711 67 Fortifications, 711 763 Defensive works of bays, harbors and basins, 719 37 Military and naval reservations
- .415 **Sanitary plat**
 See also 628 Sanitary engineering
- .416 **Linear cities**
 Shoestring arrangement, tentacular and ribbon development
- .417 **Satellite cities Twin cities**
- .42 **Types of places in general**
- .421 **According to topograpy**
 Cities on plains, hilly or mountainous country, in valleys, on hiltops, etc Coast or shore cities (see also 711 455 Watering places), island cities, river cities (see also 711 762 Rivers) See also 711 14 Topographic conditions of site
- .422 **According to climate**
 See also 711 14 Climatic conditions of site
- .423 **According to ethnographic character and types of population**
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- 711.424 According to historical, monumental or architectural character
Places according to international, national, regional or local architectural styles, skyscraper cities, etc (see also 711 65 Architectural style of buildings, 722-724 Architecture) Dead or abandoned towns See also 711 52 Archeologic centers, 719 353 Historical reservations
- .425 Inner cities
E.g. City of London Forbidden city (Peking)
- .426 According to materials used
May be divided like 691, e.g. 711 4262 Cities predominantly of stone structures See also 711 65 Building materials and types of construction
- .427 Imaginary places Utopias
Ideal or model types See also 321 07 Political utopias
- .43 Places according to size or importance
Metropolises, large, medium size and small cities and towns, villages, village improvement movement, civil parishes, hamlets, boros urban districts
- .45 Places according to dominant function
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Distributing centers in general
- .453 Shipping points
Railroad port and harbor, and airport towns
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Watering places seashore, lake, hot spring and hill or mountain resorts (see also 711 421 Coast or shore cities) sanitarium towns places of retirement, suburbs of unhealthy cities See also 613 12 Hygiene of health resorts
- .458 World city World civic center
- .46 Religious
Cathedral towns, etc
- .47 Educational
College and university towns
- .48 Residential
See also 711 13 Housing, 711 667 Residences

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Districting Zoning

Organization and subdivision of city area by dominant function See also 711.32 Regions according to external aspects

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General questions

.52

Differential concentration of zones and districts

Types of zones centers and districts in general Civic unity group design, interrelation of buildings in groups (see also 711.16 Changes involved in plan development) Open spaces squares, public and quasi public other than for traffic (see also 711.13 Public recreation, 711.551 Centers for public works, 711.558 Recreation areas, 712-719 Landscape architecture, parks and gardens) Centers and buildings of archeologic and historical interest (see also 711.12 Preservation of historical features, 711.424 Places according to historical character, 719.353 Historical reservations) Blighted areas

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Civic centers

Administrative, governmental, centers for public works water, gas, electricity, etc See also 711.52 Open spaces, 719.333-335 Water supply reserves

.552

Commercial and industrial centers Business districts

Relation to transportation facilities (see also 711.7 Transportation system) Location urban v sub-urban, industrial suburbs, 'garden city' principle of location and development, etc (see also 711.582 Garden cities) Density of development intensiveness of occupancy, general character of building development (see also 711.13 Congestion 711.65 Structures according to height form and material) Retail, shopping, wholesale, office, financial, market etc districts, markets (see also 712.524 Market places in landscape architecture) See also 711.662 Business and commercial buildings

.553

Shipping centers

Railroad, port, warehouse and airport districts station areas, etc See also 711.663 Buildings for transportation and storage, 711.753 Railroads 711.76 Waterfronts, 711.772 Aviation terminals

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Industrial centers

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- 711.555 Centers for hygienic, health and safety institutions
Hospital, asylum, etc. areas
- .556 Prison and reformatory zones
- .557 Zones for travelers and temporary residence
Hotel and restaurant districts, tourist camps, etc.
- .558 Recreation and amusement centers
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- .559 Boundary areas Boundaries
Approaches and entrances; defensive areas See also 711.554 Agricultural areas, 711.67 Boundary structures, 711.77 Terminal facilities
- .56 Religious centers and communities
- .57 Intellectual and educational centers
Areas for libraries, museums, exposition groups, academies, schools, etc.
- .58 Residential centers Neighborhood planning
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- .582 Nonurban or residential areas
Rural improvement movement and planning, countryside improvement (see also 630.1 Improvement of country life conditions, 711.3 Regional planning) Workmen's cities and settlements (see also 362.56 Free colonies) Garden cities and villages, subsistence towns (see also 711.552 Industrial suburbs, 711.583 Garden suburbs) Country seats or villas (see also 712.64 Private estates) Temporary colonies, encampments
- .583 Urban and suburban residential areas
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- .585 Undesirable and unhealthy districts
- .586 Uninhabitable districts and houses
For blighted areas in general see 711.52
- .588 Racial centers

711.6

City building

Structural elements, site planning See also 717 Structural elements in Landscape architecture

.61

General questions

Professional considerations, relation of structures to surroundings, legislation, restrictions (see also 614.85 Building laws, 711.65 Limitation of height and form), data design, construction and maintenance, cost, special aspects

.62

Arrangement of structures

Between party walls, buildings in block, terraces semi-detacht, detaché See also 711.583 Districts distinguished by predominant type of residences, 711.667 Residences

.63

Blocks and lots Land subdivision

See also 711.14 Economics of land subdivision, 711.41 Types of plats, 712.646 Estates designed collectively

.631

General questions

.632

Blocks

Adaptability to development, size, shape, orientation, topography (see also 711.722 Orientation of streets) Relation to other blocks, treatment of boundaries, etc (see also 711.67 Boundary structures) Relation to street (see also 711.721 Proportion of street to block area) Subdivision into lots Relation of area to buildings thereon, block interiors, corner reservations, etc Types of occupancy (see also 711.55-58 Functional centers, 711.66 Structures according to use, 712.546 Block interior playgrounds, 712.6247 Garden design in relation to structures)

.633

Lots

See note under 711.632 for types of topics included
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.64

Alignments

On street front, at rear, spacing of structures, density, elements out of alignment, view obstructing elements, projections See also 711.725 Relation of streets to buildings

.65

Structures according to height, form and material

Skyscrapers, limitation of height (see also 711.13 Concentration in high buildings, 711.552 Density of development, 711.725 Relation of street to height of buildings) Limitation of form, pyramidal form, etc Architectural style and details (see also 711.424 Places according to architectural style, 722-724 Architecture, 729.3 Elementary architectural forms) Materials and types of construction (see also 711.426 Places according to materials used, 711.552 General character of building development, 721 Architectural construction) color (see also 711.12 Esthetic aspects of city plans), resistance to fire (see also 614.841 Fire prevention, 693.8 Fireproofing) See also 614.85 Building laws, 711.61 City building legislation, 720 Architecture

711.66

Structures according to use

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 See also 711 45-48 Places according to dominant function,
 711 632 Types of block occupancy, 712 58 Grounds of
 public buildings, 712.7 Private grounds 723-728 Archi-
 tecture

.661

Public buildings Governmental and civil

Including national, state and municipal buildings
 Administrative buildings capitols, court houses, city
 halls, etc Buildings for special municipal services
 fire and police stations, prisons, reformatories, pumping
 stations, sewerage and sewage disposal buildings, gas
 tanks, power houses, municipal incinerators, stables,
 etc

.662

Business and commercial buildings

Stores retail and wholesale, office buildings, financial
 institutions banks, etc, markets, market buildings
 refreshment establishments cafés, saloons etc

.663

Buildings for transportation and storage

Railroad stations, warehouses, etc For port struc-
 tures see 711 764 See also 711 753 Railroad station
 areas 711 77 Terminals

.664

Industrial buildings

Factories, mills, etc See note under 711 454 for sug-
 gested method of arrangement

.665

Hospitals, asylums, etc.

.666

Religious and educational institutions

Churches, schools, libraries, exposition buildings,
 museums, etc See also 711 13 Public education

667

Hotels Clubs Residences

Arrangement of residences (see also 711 62 Arrange-
 ment of structures) Apartments tenements, cot-
 tages, etc. See also 711 13 Housing, 711 48 Residential
 cities, 711 58 Residential districts, 711 632 Residential
 blocks, 711 633 Residential lots 711 74 Residential
 streets 728 Residential architecture

.668

Buildings for recreation

Opera houses, theaters, auditoriums, public baths
 gymnasiums, etc See also 711 13 Public recreation,
 712 545 Playground structures

.669

Minor buildings

Shelters, pavilions (see also 711 752 Street railway
 shelters, 712 545 Playground shelters), public comfort
 stations (see also 717 66 Comfort stations in Landscape
 architecture), bandstands, etc, booths street stands.
 greenhouses (see also 716 3 Greenhouses in Landscape
 architecture), service stations etc. See also 711 63
 Accessory structures 717 682 Park and garden shelters,
 bandstands, etc in Landscape architecture

711.67

Protectiv and defensiv structures

Dams dikes, levees, flood protection (see also 627 Hydraulic engineering) Fortifications, forts (see also 623 1 Military engineering, 711 414 Fortified towns) Boundary structures walls fences, gates, etc (see also 711 559 City boundaries 711 632 Treatment of block boundaries) See also 711 763 Waterfront protection and defenses

.68

Accessory structures

Monuments and statues (see also 717 9 Monuments and statuary in parks and gardens 718 66 Monuments in cemeteries), fountains basins, drinking fountains, fountains, etc (see also 714 3 Fountains etc in Landscape architecture), clocks, flagpoles street and park accessories seats, waste cans, etc (see also 712 514 Park furniture, 717 9 Garden furniture) lighting fixtures, city scales advertizing and display structures, billboard regulation and removal (see also 659 134 Advertizing), etc See also 711 669 Minor buildings, 711 727 Street furniture

.69

Other structural elements

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Transportation system

See also 380 Commerce, 625 Railroad and road engineering, 626 Canal engineering, 627 River and harbor engineering, 656 Transportation 711 13 Demography, 711 55-58 Relation of various types of centers to transportation facilities 713 7 Roads in Landscape architecture

71

Regional National International

National and state roads

.72

Urban system in general

See also 352 7 Streets in local government, 388 Local transit in Sociology

.721

General considerations

Legislation (for traffic regulation see 388) Professional considerations data traffic censuses, data on vehicles (e.g. motor trucks) design construction and maintenance, cost Influence of traffic on street form, street plan, etc., congestion of traffic Influence on streets of changes in means of transportation, development of motor traffic Proportion of street area to block area (see also 711 632 Relation of blocks to streets), etc

.722

Location and orientation

Location of main thoroughfares (see also 711 73 Thoroughfares) of minor streets (see also 711 74 Local streets) See also 711 632 Orientation of blocks

.723

Structure

Form cross section pavements multiple streets, park streets, etc See also 625 7 Road and street engineering, 711 751 Relation of railways subway approaches, etc. to street, 715 148 Street planting, 715 1753 Vegetation suitable for street planting

- 711.724 **Street junctions**
 Intersection of lines of traffic, avoidance of collision points, viaducts to avoid crossings at grade (see also 711 726 Bridges, 711 753 Railroad crossings)
- .725 **Relation to buildings**
 Setbacks, encroachments of buildings, balconies, projections, etc., covered streets, arcades, colonnaded streets, galleries relation to height of buildings See also 711 64 Alignments, 711 65 Buildings according to height
- .726 **Bridges Tunnels**
 Viaducts, aqueducts, culverts See also 624 Bridge engineering, 625 13 Railroad tunnel construction, 711 724 Street junction viaducts, 711 74 Footbridges, 711 752 Street railway bridges and tunnels, 711 753 Railroad bridges and tunnels, 711 762 Rivers, 711 82 Conduits, and in Landscape architecture 713 74 Bridges, 713 75 Tunnels
- .727 **Street furniture**
 Street name plates, police and fire alarm boxes, mail boxes, hydrants, etc See also 711 68 Street accessories, 711 752 Trolley poles and wires, 715 148 Street planting
- .728 **Subsurface utilities in relation to street**
 Special subways, etc See also 711 752 Underground railways, 711 8 Conduits and wires
- .729 **Other topics**
- .73 **Thorofares Highways**
 Traffic streets, arterial and interurban highways, communication between center and suburbs Special forms radial, peripheral, etc Business thorofares, traffic squares, round points, cabstands, I-way streets Pleasure thorofares, drives formal, boulevards, etc., informal, parkways, etc., concourses, bridle and bicycle paths See also 711 722 Location of main thorofares, and in Landscape architecture 712 524 Squares, 712 547 Fields for special sports, 713 7 Roads, drives, etc., 715 1753 Vegetation suitable for street planting
- .74 **Local streets and footways**
 Alleys, private ways, local business streets, as frontage for business buildings, etc., business squares, local residential streets, residential squares, 'places', footways, sidewalks, promenades, malls steps, ramps, footbridges (see also 711 726 Bridges in general), etc See also 711 58 Residential centers, 711 667 Residences, 711 722 Location of minor streets, and in Landscape architecture 712 524 Squares, 715 1753 Vegetation suitable for street planting

- 711.75 **Street railways** **Railroads**
 Rapid transit facilities See also 625 Railroad engineering
- .751 **General questions**
 Legislation professional considerations, relation to street, connections between transportation lines at different levels subway approaches (see also 711 723 Street structure), obstruction of surface traffic by railway structures, electrification, etc For these topics as related to street railways only see 711 752, to railroads only 711 753
- .752 **Street railways**
 Including interurban street railways Surface (see also 711 727 Street furniture, 711 8 Conduits and wires), elevated and underground railways, subways (see also 711 726 Bridges viaducts, tunnels, etc, 711 728 Sub-surface utilities in relation to street) Stations, shelters, station approaches escalators, etc (see also 711 669 Shelters and pavilions 711 773 Passenger terminals) See also 388 4 Street railways in Sociology, 625 6 in Engineering, 711 552 Relation of commercial centers, 711 558 of recreation centers and 711 583 of suburban growth to transportation facilities, 711 772 Street railway terminals, 711 773 Relation of passenger terminals to local transportation
- .753 **Railroads**
 Railway reservations train yards freight houses and yards, rights of way Crossings, elimination of grade crossings (see also 711 724 Viaducts to avoid crossings at grade) Railroad bridges and tunnels (see also 624 Bridge engineering, 711 726 Bridges and tunnels) Stations, station places, squares, grounds (see also 711 663 Railroad station buildings, and in Landscape architecture 712 524 Squares, 712 78 Station grounds) See also 385 Railroads in Sociology, 625 Railroad engineering, 656 Railroad operation, 711 453 Railroad towns, 711 553 Railroad districts, 711 77 Railroad terminals
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- .761 **General questions**
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- .762 **Rivers** **Canals** **Inland waterways**
 See also 711 14 Rivers in city plans, 711 421 River cities, 711 726 Bridges
- .763 **Bays** **Harbors** **Basins**
 Channels, lighthouses, harbor lines protective and defensive works, etc. See also 711 414 Naval strongholds, 711 67 Protective and defensive structures

711.764

Commercial waterfronts

Capacity, frontage, fire protection, etc. Docks, slips, wharves etc (see also 712 534 Recreation piers) Special provision for passengers, for freight (see also 711 773 Passenger and freight terminals) Shipyards dry docks (see also 623 83 Ship building docks) Industrial areas utilization of waterfront by manufacturing plants etc (see also 711 554 Industrial centers) For recreational waterfronts see 712 53, see also 711 14 Topographic conditions of site, 719 346-348 Shore reservations

.77

Terminal facilities

See also under 380 Commerce, 656 Transportation, 711 559 Boundary areas, 711 663 Buildings for transportation and storage

771

General questions

Legislation professional considerations etc

.772

Types according to mode of transportation

Street railway terminals including interurban (may, if preferred be classed in 711 752 Street railways), railroad terminals (see also 711 753 Railroads), waterway terminals (see also 711 76 Waterways and waterfronts), aviation terminals landing fields (see also 629 136 Airport engineering, 711 453 Airport towns 711 553 Airport districts 712 54775 Recreational aviation fields)

.773

Types according to kind of traffic

Passenger, freight See also 711 752 Street railway stations, 711 753 Railroad stations and freight yards, 711 764 Special provision for passengers and freight at waterfronts

.8

Conduits Wires

Subsurface utilities See also 711 728 Subsurface utilities in relation to street, 711 752 Underground railway cables 713 8 Conduits etc in Landscape architecture

.81

General questions

Legislation, professional considerations, relation to street maintenance, etc.

.82

Conduits, pipes, etc.

For watersupply and distribution (see also 628 14 Water supply conduits in Engineering), sewerage and surface drainage systems (see also 628 2 Sewerage engineering), subsurface drainage systems, gas distribution, central heating systems, pneumatic tubes (see also 654 8 Communication) See also 628 Sanitary engineering, 711 726 Aqueducts

.83

Wires

Removal of overhead wires Power, light and heat wires (see also 621 3102 Electric transmission lines 621 332 Traction lines), telephone and telegraph wires (see also 621 33 Electric communication), radio or wireless apparatus (see also 621 384 Radio communication) See also 632 8 Plant injuries

.9

Other topics

712 Landscape architecture Landscape gardening

The art of fitting land for human use and enjoyment
 Arrangement and development of land and the objects upon it in connection with private grounds and gardens, institutions public parks, playgrounds and squares, cemeteries, streets and parkways, residential communities, and problems of city and regional planning (American Society of Landscape Architects)
 Parks and gardens See also in City planning 711 13 Public recreation, 711 52 Open spaces 711 55⁸ Recreation centers For form divisions see Table 2 following Relative index

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- .5 Public and semipublic parks, grounds and gardens
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- .2 Landscape design
 - See also 712 4-7 Types of landscape design according to use, 715 14 Planting design in general
- 21 General questions
 - Esthetics of landscape design, psicologic basis, taste, ideals, appreciation, criticism
- .22 Style
 - Informal, gardenesk, formal, geometric, etc.; humanized, naturalistic, etc.
 - of natural landscape

712.23

Landscape effect

Historical categories, effects discuss in early literature on landscape design, e.g. melancholy, gay, 'sublime,' etc. Effects due mainly to style or character, grand, etc., to transitory conditions of weather, light or darkness, hour of day, etc., gloomy, etc., to association of ideas, romantic, etc. (see also 712.22 Romantic style)

.24

Landscape composition

Comparison with landscape painting (758.1) and photography (770) Unity and attraction of attention, extent of composition, consideration of visual angle, etc. Emphasis, contrast, variety, climax, dominance, focalization, etc. See also 715.141 Esthetic composition in planting

.25

Forms of order in composition

Harmony, unity, repetition, monotony, sequence, rhythm, balance, opposition, simplicity, etc.

.26

Characteristics of objects and circumstances modifying their appearance in composition

Shape and size, proportion, scale, texture, color, light and shade, perspective, seasonal effects (see also 712.6246 Gardens at special seasons), movement, etc. See also 713 Elements and materials in landscape design

.27

Landscape compositions and their compositional elements

Choice of viewpoints, etc.

.28

Pictorial compositions

Elements in their space relations, inframent, foregrounds, backgrounds, middle grounds, planes of distance, balanced compositions, axial arrangements, vistas, panoramas, etc. Objects in composition according to design value (for compositional elements in special landscape units see numbers for those units) Objects as enclosure, boundaries and entrances (see also 715.165 Boundary plantations, 717.8 Boundary structures), as surface decoration (see also 713.17 Decorative surface treatment of roads, 716.163 Carpet bedding, 717.688 Parterres), as marking points of interest, accents (see also 715.161 Specimens, 717.9 Garden furniture), as marking points commanding views (see also 717.682 Outlooks, gazebos, etc.) See also 712.6243 Compositional elements in pleasure garden design

.29

Other topics in landscape design

- 712.3 Technical procedure Professional practis**
 Use 712 018 for general technical methods
- .31 General questions**
 Legal relations of landscape architects, legislation relating to professional practis, registration and examinations (for competitive examinations use 712 079 See also 712 17 Legislation relating to landscape architecture). Charges, relations with special parties, clients, colleags, contractors, nursermen, gardeners, etc , advertizing and publicity (see also 712.13 Publicity in landscape improvement movement). For professional conduct use 712 069
- .32 Organization and equipment of office**
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- .33 Collection of data**
 Visits to ground, survey, forms of presentation, etc
- .34 Office procedure in design**
- .35 Presentation of design**
 Drawings, drafting, rendering, freehand and landscape drawing, painting, etc (see also 740 Drawing, 758 1 Landscape painting, 760 Engraving, 770 Fotografy) Presentation and representation of special landscape forms, models (see also 731 42 Sculptural modeling); written material, reports, specifications, estimates, lists, etc
- .36 Superintendence of construction and maintenance**
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- .4 Types of landscape design according to use
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- .512 Legislation**
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DECIMAL CLASSIFICATION

712 514

Design

General for design of special type of park or garden see number for that type Styles (see also 712 22 Style in general landscape design) composition sites relations of general design to design of various compositional elements ground forms plantations structures etc (See also numbers for these elements under 713-717 also 711 68 Street and park accessories in City planning 712 513 Encroachments on public parks)

515

Construction and maintenance

General for construction and maintenance of special type of park or garden see number for that type Soil fertility sprinkling etc (see also 715 15 Planting and culture) Cost and cost accounting (see also 657 Accounting)

.516

Park systems for special types of cities

May be divided like 711 4 e g 712 51651 Park systems for capitals

.518

Special aspects

May be divided like the whole classification e g 712 51817 Ethical aspects of public parks

52

Parks according to size

2 5 under 522-524 may be used like 712 512 515 e g 712 5224 Design of large parks

.522

Large parks

523

Small parks

Commons garden squares neighborhood parks not developed for active recreation See also 712 524 Squares in general

.524

Squares

Market places and squares (see also 711 552 Market districts) congregating places forums exchange places architectural and monumental squares (see also 717 9 Monuments in gardens and parks) See also in City planning 711 52 Open spaces 711 73 Traffic squares 711 74 Business and residential squares 711 753 Station places and squares and in Landscape architecture 712 523 Garden squares, 712 78 Station grounds

53

Water parks Recreational waterfronts

Developed for intensive use boating bathing etc. Combination with commercial utilization, misuse defacement of shores Seashore lake river island etc. parks See also in City planning 711 14 Relation of waterfronts to city sites 711 764 Commercial waterfronts in Landscape architecture 714 Water features 717 687 Boating and bathing structures 719.34 Shore river etc. reservations

.532-535 may be used like 712 512-515

E g 712 533 Administration of water parks

712 54

Amusement and recreation grounds

See also 712 513 Camping privileges in public parks
For similar areas in natural reservations see under 719 3

.541

General questions

Under 542-545 below 2-5 may be used like 712 512-515, e.g.
712 5455 Playground construction and maintenance

.542

Amusement parks

See also 791 Amusement parks as public entertainment

.543

Open air concert gardens Tea gardens

Outdoor restaurants and refreshment places

Beer 'gardens', etc.

.545

Playgrounds Athletic fields

Distribution of playgrounds, etc. Legislation, administration, regulations, from landscape architecture side only (for playground management in general see 796)
Design ground surface and surfacing, plants, play ground planting structures (see also 717 687 Structures for outdoor sports), gymnasiums, fieldhouses, shelter buildings etc (see also in City planning 711 668 Recreation buildings 711 669 Shelters and pavilions), playground furniture, lighting, seats, apparatus, fences, screens, etc. (see also 717 85 Back stops), roads paths, bridges, etc.; construction, maintenance, cost, etc. See also 717 686 Stadiums and amphitheatres, 796 Athletic and outdoor sports and games, theory of play, etc.

.546

. Types according to use

Recreation centers neighborhood and social centers, combining provision for all ages (see also 374 28 Community centers in adult education), school playgrounds (see also 371 61 School premises, 712 58 School grounds, 712 75 College and university grounds), roof play grounds block interior playgrounds (see also 711 632 Block interiors in City planning) athletic fields, etc. (see also 796 Athletic fields in general) May be arranged alphabetically by name of type

- 712.547 **Fields for special sports Grounds for sports and games**
 May be subdivided like 790, e g 712 547633 Football fields See also in City planning 711 73 Parkways, 711 772 Commercial aviation fields, and in Landscape architecture 712 71 Country club grounds, 714 33 Swimming and wading pools in general landscape design, 717 686-687 Amphitheaters and stadiums structures for outdoor sports, 717 35 Back stops
- .548 **Special aspects**
 Physiologic, social, etc. May be divided like the whole classification, e g 712 54833 Economic aspects
- .55 **Exposition and fair grounds**
 Grounds for state and county fairs, etc See also 711 57 Exposition groups in City planning
- .56 **Public gardens Zoologic and botanic parks**
 'Museum gardens', arboretums See also 712 626 Exhibition or specimen gardens 717 66 Dovecotes bird-houses, etc in general landscape design
- .57 **Drill grounds, etc**
- .58 **Grounds of public buildings and building groups**
 Capitol, court house, city hall grounds, library and museum grounds, school grounds (primary, elementary, secondary schools), educational institution grounds in general (see also 712 546 School playgrounds 712 627 School gardens 712 75 College and university grounds) See also in City planning 711 55-58 Functional centers, 711 66 Structures according to use, and in Landscape architecture 712 7 Private grounds
- .59 **Other**
- .6 **Private parks and gardens**
 Yard improvement, garden contests in general but when applied to special type of garden may be class with that type
- .61 **General questions**
- .62 **Pleasure gardens**
 Garden books including estates class in 712 64 Private estates See also 712 64147 Pleasure gardens in private estates
- .624 **Design**
 See also 712 6414 Private estate design
- 1 **General questions**
- 2 **Styles of gardens**
 See also 712 22 Style in general landscape design

712 6243

Composition of garden

Compositional elements Boundaries, entrances; surface decoration, beds, turf areas paths, etc (see also 713 73 Paths in general landscape design), objects marking points of interest, etc See also 712 28 Objects in landscape composition

4

Gardens in relation to environment Sites

Climate and atmosphere, tropic gardens, etc

5

Topography

Waterside gardens, seashore gardens (see also 712 626 Water and bog gardens, 715 144 Planting in general in relation to water, seashore planting, sea beach vegetation, 715 154 Bog and aquatic vegetation; 715 158 Exposure to salt spray), gardens on flat uneven or rocky topography, hillside, terraced and hilltop gardens

6

Gardens at special seasons or hours

Seasonal effects, day and night effects, including lighting of gardens See also 712 26 Seasonal effects in landscape composition, 715 141 Seasonal effects in plantations, 715 1735 Seasonal appearance of vegetation

7

In relation to structures

Dooryard, backyard, courtyard gardens, roof and penthouse gardens, vacant lot gardens. See also in City planning 711 632 Block interiors, 711 633 Lot interiors, and in Landscape architecture 712 642 Lot planting, 715 147 Planting in relation to structures

8

Gardens of special sizes and shapes

Small gardens, sunken gardens etc

9

Other topics

.625

Construction and maintenance

Cost, etc. See also 715 15 Planting and culture

.626

Gardens of special plant materials

Gardens devoted wholly or mainly to single kind of plant (For such plants in mixt gardens see numbers for those kinds under 715-716 Vegetation) Old-fashioned, colonial, Shakspearean, exhibition, specimen, etc. gardens (see also 712 56 Botanic gardens). Gardens of trees topiary gardens, wildernesses (historical term for garden areas devoted to wild growth), of shrubs, rose gardens etc, of herbaceous plants gardens devoted to annuals biennials, perennials, bulbs, native plants ('wild gardening'), rock and alpine plants (rock and wall gardens, see also 717 84 Walls), water plants (water gardens), bog and marsh plants (bog gardens, see also 712 6245 Waterside gardens, 715-144 Planting in general in relation to water features); etc. Special color groups, color effects in gardens

DECIMAL CLASSIFICATION

- 712.627 **Gardens for special classes of people**
 Architects', children's, school, etc. gardens, see also
 372 36 School gardening, 712 58 School grounds
- .628 **Special aspects**
 May be divided like the whole classification, e.g.
 712 6288 Pleasure gardens in literature
- 63 **Service gardens**
 Material on decorative vegetable gardens may be class here,
 712 634-635 may be used like 712 514-515 and 624-625,
 e.g. 712 6347 Vacant lot service gardens. See also 635
 Vegetable and kitchen gardens, 635 9 Flower gardens,
 716.2 Flowers in landscape architecture
- .64 **Private estates**
 Class here garden books which include estates. See also
 711 582 Country seats in City planning, 712 62 Pleasure
 gardens
- .641 **General questions**
- 4 **Design**
 41-45 divided like 712 6241-5
 E.g. 712 64145 Seashore estate design
- 46 **Natural character units**
 Lawns, woods, etc. See also 716.164 Lawns as
 design units, 719 Natural landscapes
- 47 **Structures in private estates**
 House and house terrace, service and pleasure
 buildings and areas, including pleasure gardens
 as part of estates (see also 712 62 Pleasure gar-
 dens in general) See also 717 Structures in
 landscape
- 48 **Access and entrances Circulation**
 See also 713 7 Roads, paths etc. in general land
 scape design
- 49 **Other topics**
- 5 **Construction and maintenance Cost**
 For estate management see 631 1

Each of following 712 642-646 may be subdivided like 712 641,
 e.g. 712 6424 Lot design

- .642 **House lots (up to 1 acre)**
 Lot planting. Including collective designing, grounds
 of apartments and row houses. See also 711 633 House
 lots in City planning 712 6247 Gardens in relation to
 structures, 712 646 Estates designed collectively
- .643 **Suburban estates**
 Small estates (1-10 acres), summer colonies. See also
 711 583 Suburban places in City planning, 712 646
 Estates designed collectively

- 712.644 **Country estates**
 Large estates (over 10 acres), royal and imperial estates; castle grounds; private estate reserves, private parks, game preserves, deer parks See also 639 1 Commercial game preserves, 719 32 Private natural reserves 719 36 Reservoirs for preservation of animal and plant life
- .645 **Farms**
 In general libraries prefer 631 Farms in Agriculture
- .646 **Estates designed collectively**
 See also in City planning 711 58 Residential districts, 711 63 Land subdivision, and in Landscape architecture 712 642 House lots designed collectively, 712 643 Suburban estates
- .647 **Estates for special classes of people**
 See also 711 583 Districts in City planning distinguished by predominant cost of residences
- .7 **Private grounds**
 Grounds of private buildings and building groups For general questions see 712 61 and 641 See also in City planning 711 55-58 Building groups, 711 66 Individual buildings, and in Landscape architecture 712 58 Grounds of public buildings
- .71 **Country club grounds Golf clubs**
 See also 712 547 Grounds for sports and games
- .72 **Hotel grounds**
 Country, seashore, etc., summer hotels
- .73 **Recreation camps**
 See also 712 513 Camping privileges in public parks
- .74 **Hospital, asylum, sanitarium, etc. grounds**
- .75 **College and university grounds**
 See also 712 546 School playgrounds, 712 58 School grounds in general public school grounds
- .76 **Church grounds**
 Grounds of religious institutions, cathedrals, monasteries, etc. See also 718 Cemeteries
- .77 **Factory grounds**
- .78 **Railroad "**
 Including station grounds and rights of way See also 711.753 Railroad stations in City planning, 712 524 Squares as parks
- 79 **Other**

Landscape construction and maintenance

Structure, arrangement, plan, elements and materials, walks and drives, etc. For general superintendence of construction and maintenance see 712.36. For construction and maintenance of special types and elements of landscape design see numbers for those types and elements under 712.4-7. Types of landscape design, 714. Water features, 715-716. Vegetation, 717. Structural elements. See also 712.26. Characteristics of objects and circumstances modifying their appearance in landscape composition.

.1 General questions

Presentation of construction plan, cost of construction and maintenance

.2 Construction

Earthwork, grading, etc. See also 713.8. Pipes, conduits, wires

.3 Maintenance

See note under 713 above

.4 Atmosphere, sky, clouds, etc.**.5 Ground forms**

Geologic origin (see also 551. Geology), design maintenance, etc. Plains, valleys, hills and mountains, rocks, ledges, caves, etc., naturalistic banks and slopes (see also 717.7. Embankments etc.) For water features see 714, for ground forms as motivating planting see 715.143, structures 717.61. See also 712.514. Place of ground forms in general in public park design, 719.22. Types of natural landscape according to topography, 719.3. Scenic reserves

.6 People and animals as landscape elements

Crowds as elements in design, as at Versailles, sheep, water fowl etc in landscape

.7 Roads, paths, etc. Ways

See also 625.7. Road construction, 711.7. Transportation system in City planning, 712.514. Roads, bridges etc in public park design, 712.64.148. Access and entrances in private estates, 717. Structural elements

.71 General questions

Design considerations of topography, traffic, form, cross section etc (see also 715.148. Roadside planting). Construction and maintenance, pavements, materials decorative surface treatment (see also 712.28. Objects as surface decoration in general landscape composition), curbs gutters, road signs, etc. See also 625.8. Pavement construction. In general libraries prefer 625.7-8 for road and pavement construction

713.72

Roads Drives Avenues

Entrance and approach roads and turns, forecourts, service roads (see also 717 66 Service yards), causeways (see also 717 7 Terraces and embankments), 'wood roads', lanes, bridle and bicycle paths, trails, etc. See also 712 514 Roads, etc. in public and semipublic parks, 712 534 Drives in waterparks, 712 64148 Access and entrances in private estates, 715 1753 Selection of vegetation with regard to width of streets, etc.

.73

Paths Footpaths Walks Promenades

See also 712 6243 Paths as surface decoration in pleasure gardens, see also references under 713 72 For steps see 717 88

.74

Bridges Viaducts Monumental aqueducts

See also 624 Bridge engineering, 711 726 Bridges in City planning, 714 36 Garden aqueducts. May be divided like 624 e g 713 746 Archt bridges

.75

Tunnels

See also 625 13 Railway tunnel construction, 711 726 Tunnels in City planning

.8

Pipes Conduits Wires

May be divided like 711 8 Pipes, etc in City planning, which see also, e g 713 83 Disposal of wires See also 713 2 Earthwork, grading, etc. in general landscape construction, 717 Structural elements

.9

Other landscape elements

For water features see 714 vegetation 715-716, structural elements 717

714

Water features

See also 711 76 Waterways, waterfronts in City planning, 712 514 Place of water features in general in public park design, 712 53 Water parks, 713 Landscape construction and maintenance, 715 144 Plantations in relation to water features, 719 34 Scenic reservations

.2

Waterbodies and their shores

See also 711 76 Commercial waterways and waterfronts, 712 53 Water parks, 719 346- 348 Shore reserves

.21

General questions

Water in landscape, compositional value, reflections etc., shore protection. See also 717 74 Structural shore treatment, 717 84 Sea walls

.22

Sea and seashore

See also 712 53 Seashore parks, 719 346 Seashore reserves

- 714.23 Lakes, ponds and their shores
 See also 712 53 Lake and pond parks, 714 33 Artificial pools and basins, 719 348 Lake and pond reserves
- .24 Streams Stream banks
 Rivers, naturalistic canals (see also 714 4 Canals in general), brooks, waterfalls, cascades (see also 714 35 Artificial cascades) See also 712 53 River parks, 719 348 River reserves
- .25 Islands
 See also 712 53 Island parks 719 342 Island reserves
- .26 Types of shores
 Shore outlines, bays, promontories, etc., beaches sand (see also 712 534 Bathing beaches in recreational water fronts), shingle, etc.; rock and cliff shores, marshy, sedgy shores, etc
- .27 Marshes Swamps
 See also 719 232 Marsh and swamp landscapes
- .3 Architectural and sculptural water features
 'Ornamental water'. See also 711 68 Fountains, basins, etc in City planning, 717 General structural elements
- .31 General questions
- .32 Fountains Water jets
 Illuminated fountains drinking fountains, watering troughs, etc.
- .33 Pools Basins
 Created or artificially modified Fish ponds, swimming and wading pools See also 712 54772 Swimming and wading areas in playgrounds, 714 23 Natural ponds
- .34 Water ramps
 See also 717 88 Ramps in general
- .35 Artificial cascades
 See also 714 24 Natural waterfalls
- .36 Garden aqueducts
 For monumental aqueducts see 713 74 See also 714 4 Canals
- .37 Welheds
- .38 Bird baths
- .39 Other
- .4 Canals, moats, etc.
 See also 626 Canal engineering, 714 24 Naturalistic canals 714 36 Garden aqueducts
- .5 Dams Spilways Locks
 See also 626 4 Canal engineering, 627 8 River engineering

Vegetation Trees, shrubs, hedges

For herbaceous plants see 716 See also 580 Botany 635 9
 Floriculture 712 514 Park planting 712 626 Gardens of special
 plant materials 713 Landscape construction and maintenance

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- 12 Legislation
- 14 Design Plantations
- 15 Planting and culture
- 16 Types of plantations
- 17 Description Plants as landscape material
- 18 Special aspects
- 2 Trees
- 3 Shrubs Arborescent plants
- 4 Climbing or trailing shrubs Woody vines

I General questions**12 Legislation****14 Design Planting design Plantations**

See also 712 2 General landscape design

.141 General questions

Theory of planting design. Style and character in
 planting design esthetic composition including
 seasonal effects in plantations (see also 712 24 Land
 scape composition 712 6246 Gardens at special
 seasons) presentation of planting plan economic
 considerations (see also 715 175 Vegetation accord
 ing to purpose and use)

**.142 Plantations in relation to other elements in land-
scape design****143 To ground forms**

Planting in relation to topography See also 713 5
 Ground forms in general landscape design

144 To water features

Shore waterside and water planting See also
 712 6245 Waterside gardens 712 626 Water
 gardens 714 Water features in general

**145 To other plantations Introduced planta-
tions**

Gregarious or solitary character

147 To structural elements To buildings etc

Vegetation as building decoration See also
 712 6247 Gardens in relation to structures
 715 17362 Vines 715 1752 Tub vegetation 716.4
 Window and balcony gardens 717 Structural
 elements in general

148 To roads and paths

Roadside and street planting roadside improve-
 ment See also in City planning 711 723 Park
 streets 711 727 Street furniture in Landscape
 architecture 713 71 Road design 715 1753 Vege-
 tation suitable for street planting

715.15

Planting and culture

See also 610 Horticulture, which in general should be preferred See also 712 515 Soil fertility, sprinkling, etc in public park maintenance, 712 625 Garden maintenance

.151

Economics and operation

May be divided like 631, except for topics specially provided for below, e.g. 715 1513 Machinery and tools

.152

Plant diseases Injuries and pests Hindrances

May be divided like 632, e.g. 715 1527 Injurious insects

.153

Plantations in relation to environment Physical conditions

Including discussions of suitable vegetation

.154

Soil

Composition, physical, chemie and bacteriologic properties, intensive cultivation, depth, fertility, moisture content dry sunny fields dry or moist woods, irrigated swampy, aquatic (see also 712 6245 Waterside gardens), drained, etc. lands

.155

Climate

Arctic temperate tropic, winds storms, temperature and temperature changes, rainfall, etc. See also 715 158 Exposure to special conditions

.156

Light Sun Shade

See also next topic

.158

Exposure to special conditions

Salt spray, dust smoke gases See also 712 6245 Seashore gardens, 715 155 Climate, 715 156 Light

.16

Types of plantations

Including discussions of vegetation suitable for each type Mixt plantations of trees, shrubs and herbaceous plants, with no one of these in great predominance See also Types of plantations under Trees 715 26 Shrubs 715 36 Woody vines 715 46, Herbaceous plants 716 16 Flowers 716 26

.161

Plantations of specimens

Include here material on specimens, even when not related to Plantations See also 712 28 Objects as marking points of interest in landscape composition, 712 626 Specimen gardens, 715 175 Vegetation according to use

.162

Topiary work

See also 712 626 Topiary gardens, 715 1732 Modified appearance of plants

- 715.163
.165 **Groups Clumps**
 Border, boundary, inclosing plantations Wind-
 breaks
 Screen plantations, hedges, hedgerows, etc (see
 also 635 976 Hedge culture), edgings See also
 635 963 Culture of border or edging plants, 712.28
 Objects as inclosure in landscape composition
- .17 **Description Plants as materials of**
 landscape and landscape design
- .171 **General questions**
- .172 **Species**
 May be divided like 582-589 Systematic botany,
 e g 715 17233 Rosal species
- .173 **Clast by characteristics**
 See also 715 174 Constituent parts
- 1 **General questions**
- 2 **Appearance**
 Natural, modified (see also 715 162 Topiary
 work), form, silhouet, branching habits, pyra-
 midal, spheric, etc., arrangement, size, mas,
 growth, texture, color and color effects
- 3 **Odor Scent Fragrance**
 See also 716 1756 Sweet herbs
- 4 **Edibility**
 For edibility of fruits see 715 1745
- 5 **Habits Time of appearance**
 See also 712 6246 Gardens at special seasons
- 6 **Special groups**
 For gardens composed of special groups of plants
 see 712 626
- 62 **Cultivated for their foliage**
 Vines, climbers, creepers in general, for
 shrubby vines see 715 4, herbaceous vines
 716 17362 (see also 715 147 Planting in rela-
 tion to structures)
- 65 **Oldfashond vegetation**
 See also 712 626 Oldfashond gardens
- 66 **Association groups**
 Vegetation associated with persons, occa-
 sions, etc See also 712 626 Gardens of
 Shakspearean plants
- 67 **Nativ and naturalized vegetation**
 Rock and alpan vegetation, wall plants See
 also 712 626 Wild gardens, 716 17367 Natural-
 ized herbaceous plants, 719 23 Types of
 natural landscape according to dominant
 vegetation
- 68 **Plant curiosities ' Freak ' vegetation**
 Exotics

715.174

Constituent parts

See also 715 173 General characteristics

1 General questions

2 Foliage Leaves

Including discussions of characteristic qualities
 Persistence, deciduous, evergreen, form and arrangement, size, texture, shiny, dull, smooth, rough, etc., color, odor, edibility, habits

3 Bark

4 Flower

See also 715 1757 Bird and bee attracting vegetation

5 Fruit

See also 634 Fruit culture, 715 1757 Bird and bee attracting vegetation

.175

Purpose Use

For specimens see 715 161 Plantations of specimens

See also 715 141 Economic considerations in planting design

2 Tub and house vegetation

Pot plants for ornamental outdoor use See also
 715 147 Building decoration, 716 36 Greenhouse plants, 716 46 Window box plants 716 56 Ferns, mosses and lichens

3 Vegetation suitable for street planting and shade

Planting strips, selection of trees, shrubs, etc. with regard to width of streets etc. For special types of vegetation (trees, shrubs, vines herbaceous plants, flowers) see appropriate numbers under those types See also in City planning 711 723 Park streets, 711 73 Business traffic streets, boulevards and parkways, 711 74 Local business and residential streets, in Landscape architecture 713 72 Roads, etc in parks and gardens, 715 148 Plantations in relation to streets, 716 166 Turf panels and strips

4 Ground cover Soil binders

See also 715 2754 Trees suitable for forest planting, 715 3754 Shrubs and 716 1754 Herbaceous plants as ground cover

7 Bird and bee attracting vegetation

See also 715 1744 Flower, 715 1745 Fruit

.18

Special aspects

May be divided like the whole classification, e.g.
 715 1837 Educational aspects of vegetation in landscape design

715 2

Trees

Divided like 715 1, e.g. 715 244 Trees in relation to water features, note special additions below See also 634 9 Forestry, 635 977 Commercial raising of ornamental trees, 712 626 Tree gardens

.24 Design Arrangement of trees Tree plantations

.241 General questions

Thinning, effect of grazing line effects from use of large trees moved in, etc

26 Types of tree plantations

.266 Allées Tree alleys and avenues

Clpt, pleacht, etc

.267 Fruit trees

Orchards espalier trees, trained fruit trees See also 634 Fruit tree culture, 712 626 Orchard and fruit gardens

.268 Woodlands Groves Wood interiors
Thickets

For natural woodlands see 719 233 See also 712 626 Garden wildernesses, 719 332 Forest reserves

.27 Description

.275 Purpose Uses

For specimen trees see 715 261

4 Trees suitable for forest planting

See also 715 1754 Ground cover in general, 719 332 Construction and maintenance of forest reserves

.3 Shrubs Arborescent plants

Divided like 715 1 & 2, e.g. 715 363 Shrub groups, clumps, beds. See also 635 976 Commercial raising of shrubs, 712 626 Shrub gardens

.4 Climbing or trailing shrubs Woody vines

Divided like 715 1 & 2, e.g. 715 4757 Bird attracting climbing shrubs

716 Herbaceous plants

See also 635 9 Horticulture, 712 514 Park planting 712 626 Gardens of herbaceous plants, 713 Landscape construction and maintenance

.1 General questions

Divided like 715 1, e.g. 716 154 Herbaceous plants suitable for swampy areas, note special additions below

.16 Types of herbaceous plantations

For wild gardens see 712 626. See also 716 2 Herbaceous flowering plants, 716 5 Ferns and mosses

- 716 163 Herbaceous groups and beds
 Bedding plants carpet beds and bedding See also 635 962 Cultivation of bedding plants 712 28
 Objects as surface decoration in landscape composition 715 1736 Special groups clast by characteristics 716 263 Floral groups 717 688 Parterres
- 164 Lawns
 As design units areas covered with turf. See also 712 64146 Lawns in private estates 716 17362 Grasses
- 166 Turf panels and strips
 See also 715 1753 Street planting
- .17 Description
 173 Clast by characteristics
 6 Special groups
 Clas here material too general to be clast in 716 2 Flowering plants or 716 5 Ferns etc See also 712 626 Gardens of herbaceous plants 716 163 Bedding plants 716 175 Herbaceous plants according to uses 716 2758 Cut flower plants 716 3 Greenhouse plants 716.4 Window box plants 716 5 Ferns mosses lichens
- 62 Cultivated for their foliage
 Foliage plants (see also 716 56 Ferns mosses and lichens) grasses (see also 716 164 Lawns)
- 64 According to life duration and means of propagation
 Annuals biennials perennials seed plants bulbs tubers etc runners layers cuttings slips etc
- 175 Purpose Uses
 For specimens see 716 161 For decorative use of vegetables see 712 63 Service gardens See also 716 1736 Special groups clast by characteristics
- 6 Sweet or scented herbs
 See also 715 1733 Scent in plants
- 8 Cut flowers and foliage
 See also 716 2758 Cut flowers 716 5 Ferns mosses etc
- 2 Flowering plants
 Divided like 716 1 e.g. 716 2754 Flowering plants as soil binders For flowering trees e.g. magnolia see 715 272 flowering shrubs, e.g. rose see 715 372 flowering woody vines e.g. wisteria see 715 472 See also 635 9 Floriculture 712 63 Service gardens

- 716 3 Conservatories Greenhouses Hot-
 houses
 See also 635 982 Greenhouses in Floriculture, 711 669
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 728 98 Architecture of greenhouses
- .31 General questions
- .34 Design
- .35 Construction and maintenance
- .36 Greenhouse or hothouse plants
 See also 715 1752 Tub and house vegetation,
 716 1752 Herbaceous tub and house plants, 716 56
 Ferns and mosses
- .4 Window gardens and boxes Plant win-
 dows Balcony gardens
 Divided like 716 3, e.g. 716 46 Window garden and
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 tion, 715 1752 Tub and house vegetation, 717 66 Potting
 sheds, 717 9 Ornamental plant pots and boxes
- .5 Ferneries
 Divided like 716.3, e.g. 716 56 Ferns, lycopodiums,
 mosses, lichens, fungi. See also 635 9753 Culture of
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 716 17362 Foliage plants in general, 716 36 Greenhouse
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- 717 Structural elements
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- .4 Design
- 5 Construction and maintenance
- 6 Buildings
- .7 Terraces Embankments
- .8 Boundary and approach structures
- 9 'Garden furniture' Ornamental accessories
- .1 General questions
- .2 Materials
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 posit construction
- .4 Design
 See also 729 Architectural design

- 717 5 **Construction and maintenance**
 See also 690 Building 721 Architectural construction
- 6 **Buildings**
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- 61 **General questions**
 Buildings in landscape compositions considerations of
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 forms in general design
- 62 **Building groups**
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 712 64147 in private estates In general except as
 noted below special buildings should be class in con-
 nection with their grounds under 712 4-7 Types of
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- 63 **Residences Houses House location**
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 private estates
- 64 **Service buildings and other service structures**
 See also 712 64147 Service buildings in private
 estates
- 65 **Farm buildings**
 Stables and stable yards barns and barnyards
 sheepfolds piggeries henhouses icehouses etc
 See also 631 2 Farm buildings in Agriculture
 which in general prefer
- 66 **Other service buildings**
 Dovecotes birdhouses etc (see also 712 56
 Aviaries in zoologic parks) apiaries beehives
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- 721 373 Columns Colonnets
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Rollock or rowlock surmounted (see also 721 427 Con
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camberd (see also 721 421 Flat arches in general) See
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- 414 Horseshoe Moorish Saracenic
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For Cloisterd and Groin arches see 721 44 Cloisterd
and Groin vaults (see also 721 456 Groin ribs)
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- 421 Straight Flat Horizontal
Jack arches sholderd Dutth French etc See also
721 413 Flat segmental arches

721.422

Pointed

Triangular primitiv, miter, pediment, truncated, corbelled, 2 centered, ogival or Gothic acute, lancet; equilateral, blunt, drop, obtuse — depressed, surbased (these terms are sometimes applied to other forms), pointed segmental (see also 721.413 Segmental arches in general); pointed horseshoe, Moorish or Saracenic (see also 721.414 Horseshoe arches in general), multicentered pointed. Tudor, Persian, ogee, contrasted, keel

-423

Multicentered unpointed

Compound, composit, mixt (these terms are sometimes applied to other forms), basket handle, hanse or haunch (these terms are sometimes applied to other forms), catenary, parabolic, hyperbolic; elliptic, cycloidal, oval, etc. Use as general number for Multicentered arches. Class general works on Unpointed arches in 721.41 Circular arches

-424

Polygonal

-425

Arches class by position

Diagonal, transverse, longitudinal or wall, open, blind, abutment or outer, back or rear, etc. arches
See also 721.456 Ribs

-426

Arches class by function

Discharging, relieving, safety; flying buttresses, semiarch, straining or truss arch, arch buttant, arch buttress (see also 721.372 Buttresses in general, 721.455 Continuous flying buttress), trimmer, squinch, triumphal, memorial etc. arches

-427

Arches class by mode of construction

Materials built, laminated (sometimes called Compound for which see 721.423), wood, masonry, etc. Centered hand, concentric, stilted (see also 721.412 Rollock and surmounted arches), rampant, raking, rising (sometimes called Oblique, for which prefer 721.455 Oblique vaults), inverted, reversed, inflected, decorated (for design see 729.33) recess (sometimes called Compound, for which see 721.423), cusped, foiled, lobed, foliated, scalloped, trefoil, Moorish multi-foiled, etc., subarches, intradosed, soffited, extradados, etc. Oblique and skew arches are preferably classed as vaults, see 721.455

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Details

Haunches, reins, crown; voussoirs, keystones, intrados, soffit, extradados, back, archivolt, face (see also 721.262 Intersecting arcades, 721.272 Architraves 721.865 Door and window archivolt), tympanum (see also 721.28 Pediments, 721.865 Door and window tympanums)

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Other topics

721.43

Vaults

Cylindric vaults Clas here general works on vaults, crypts, and vaulted ceilings. May be divided like 721.41, e.g. 721.434 Horseshoe or Moorish vaults For vault design see 729.34. See also 721.7 Ceilings

.44

Groind

Cros, compound, intersecting Clas here also Grom arches Quadripartite vaults, formed by 2 intersecting vaults common groind vaults; domical (see also 721.46 Domes), Welsh, underpitch; oblique intersecting (see also 721.455 Simple oblique vaults). Tripartite vaults, formed by 3 intersecting vaults. Polygonal vaults, formed by 4 intersecting vaults Coved or cloistered vaults, cald also Cloistered arches (see also 721.47 Square domes)

.45

Other forms

.451-.454 divided like 721.421-.424

E.g. 721.452 Pointed vaults

.455

Tunnel vaults Expanding vaults

Barrel, cradle, wagon; annular, helicoid, horizontal, inclined, skew, oblique (also cald skew arches, see also 721.427 Rampant arches, 721.44 Oblique intersecting vaults), half vaults, continuous flying buttresses (see also 721.426 Flying buttress arches), expanding, splayd or contracting vaults (also cald Splayd arches) conic, conoidal, etc.

.456

Rib and fan vaulting

Also cald Gothic vaulting Simple and compound rib vaulting, tripartite, etc., Welsh, pendant, lierne, etc. rib vaulting Diagonal or groin ribs, ogives, transverse ribs, arcs doubleaux, wall or longitudinal ribs, formerets, intermediate ribs, tiercerons, liernes-ridge ribs (liernes according to French usage), cros ribs (liernes according to English usage) See also 721.41-42 Arches, 721.452 Pointed vaults

.457-.459 divided like 721.427-.429

E.g. 721.458 Vault details, vault voussours, etc

.46

Domes

Circular domes Clas here general works on domes and cupolas Hemispheric, segmental, diminisht, saucer, bulbous, onion shaped, flaring, bel shaped, with multi-centered unpointed profile, pointed, polyhedral, etc domes according to profile For dome design see 729.342 See also 721.44 Domical groind vaults, 721.576 Domed roofs, 721.588 Ogee roofs

721.47

Other forms

According to horizontal section, mode of construction, etc. Multicentered, elliptic, convoluted, melon shaped, triangular; square, rectangular (see also 721.44 Coved vaults), polygonal, half domes, etc. Drums, tambours, pendentives, etc.

.48

Niches, Mihrabs

.49

Other

.5

Roofs

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.51

Wood

.52

Masonry Artificial stone

Concrete, etc.

.53

Other nonmetallic materials

Glass, etc.

.54

Metallic

.55

Roof openings Roof windows

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.551

General questions

.552

Hypethral openings Compluvia

Including hypethral buildings in general

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Dormers

.554

Skilights Lucerns

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Lanterns Cimborios

See also 725.976 Tower lanterns

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Lucarns Lutherns Spire lights

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Scuttles Hatches

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Louvers

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Other

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Roof decorations

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.561

General questions

.562

Crestings

Finials hip knobs, épis, ridge spikes; ridge ornaments, vanes, bannerets, wethervanes; antefixes, lightning rods, radio antennas (see also 621.384135 Antennas in Radio engineering)

.563

Reliefs

Repoussé work; sculpture, carving, statuary, etc. See also 729.5 Decoration in relief, 730 Sculpture

.564

Roof cornices Decorative eaves

See also 721.274 Wall cornices, 721.865 Door and window cornices

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Bargeboards Gable boards

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Ornamental roofing

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 roofs
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- 573 Steeples
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- 578 Pent houses Roof houses
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 Jerkinhed shredded See also 721 592 Hip roofs
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- 586 Saddleback roofs
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 Half gables canted or 'factory' roofs
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- 59 Other forms of roofs
- 592 According to slope and profile
 Flat single pitch penthouse (for pent houses as
 roof structures see 721 578) curb mansard, French
 roofs (see also 721 583 Gambrel roofs), hip pavilion
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 valley roofs cyl ndric roofs (see also 721 597 Barrel
 roofs)
- 593 According to horizontal section
 Triangular square round, irregular etc
- 597 According to mode of construction
 Single framed coupld truss scissor rafter, cradle
 barrel, compass (see also 721 592 Cylindric roofs)
 homogeneous etc. See also 624 9 Roof framing
- 598 Roof details
 Roof parts drainage etc.

721.6

Floors Flooring

- Construction and coverings
- .61 Wood
- .62 Stone Artificial stone
 - Concrete, etc.
- .63 Other nonmetallic materials
 - Brick, hollow tile, etc
- .64 Metallic Compound
- .65 Composit
- Coverings only
- .66 Parquetry
- .67 Mosaics
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- .71 Wood
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| .84-.85 | Windows | .88 | Fastenings | Locks |
| .86 | Door and window inclosures | .89 | Other details | |

.81

Doors

Wooden doors. Clas here also general works on doors, doorways and portals

.82

Of other materials

.822-.829 divided like 691.2-.9

E g 721 826 Glas doors

83

Other classes of doors

.833

According to form

Single, double (for French doors see 721 846 French windows, see also 721 836 Folding doors), double margin, Venetian, Dutch, half doors, turnstiles

721 835

According to position and function

Storm and wether doors jib concealed and secret doors blank sham and false doors (also called Blind doors see also 721 837 Slatted doors) trap and cellar doors portes-cochères posterns wickets gates (see also 725 975 Gate towers) etc

836

According to method of hanging

Swinging doors hinged pivoted etc. crapaudine revolving folding or accordion doors (see also 721 833 Double doors) flapping or flap doors Sliding doors portcullis Rolling doors (see also 721 870 Shutters)

837

According to type of construction

Batten cleated or ledged panel or framed sash or glazed slatted (also called Blind doors see also 721 835 Blank doors 721 873 Blinds) lattice screen (see also 721 875 Window screens) etc doors

838

Structural details

Slabs cleats battens ledges panels stiles slats rails (see also 721 891 Tracks)

84

Windows

External windows. Class here general works on windows

841

General questions

842

Materials

May be divided like 691 e.g. 721 8427 Windows with steel frames

843

According to form

Single coupled clustered Venetian Doctetian Palladian Wyatt half windows rose round or wheel windows oculi fanshaped (see also 721 845 Fan lights) etc windows

845

According to position or use

Storm or double sash windows blank blind or false windows lowside or offertory windows lyncoscopes squints hagnoscopes pede lunet transom windows fanlights (see also 71 843 Fanshaped windows 721 862 Transoms) bay windows bow or compass windows oriels cabinet windows. See also 721 55 Roof openings

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According to type of construction and method of hanging

Swinging windows casements hinged pivoted etc., French windows Sliding or sash windows Fixt, lattice hut and mis etc windows

848

Structural details

Sashes, casement sashes sash bars muntins leds cames (see also 721 862 Mullions transoms) panes quarrels

- 721 85 Internal windows
 May be divided like 721 84 e g 721 855 Internal
 fanlights
- 86 Inclosures of doors and windows
- 861 General questions
- 862 Frames Cases
 Jams reveals pulley boxes or cases sash pockets
 lintels (clas here all squareheaded openings) sills
 stools mullions transoms (see also 721 845 Transom
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- 863 Columnar inclosures
 May be divided like 721 37 e g 721 8633 Door and
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- 864 Archt inclosures
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 Roof cornices) consoles brackets
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 Persiennes etc. See also 721 837 Slatted or blind
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 .875 Screens
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- .876 Guard bars
 .88 Fastenings Locks
 For doors, windows, screens, etc Catches, bars,
 hooks bolts espagnolets, etc.
- .89 Other details
 .891 Hanging apparatus
 Hinges, pivots tracks, rails (see also 721.838 Door
 rails), rollers pulleys sash weights and cords,
 chains, etc
- .892 Opening and closing apparatus
 Handles knobs adjusters, springs, stops, etc See
 also 721.894 Push plates
- .893 Signaling apparatus
 Knockers doorbells speakingtube openings, etc.
- .894 Plates Scutcheons
 Knob and keyhole scutcheons, push plates (see also
 721.892 Opening and closing apparatus), doorplates,
 number plates, house numbers, mail slots, card
 holders etc.
- 895 Wetherstrips Ventilators
 .9 Iron and composit structures
 For strength of materials see 620.11 Engineering, for their
 suitability for building purposes see 691 Building
- 91 Cast iron
 92 Wrought iron
 93 Steel
 94 Composit:
 95 Iron and wood
 .96 " " stone
 97 " " ceramic materials Reinforst
 concrete
- .972 Iron and brick
 .973 " " terra cotta
 974 " " tile
 .975 " " artificial stone Reinforst concrete
- 98 Iron and glas
 99 Glas and other materials
- .992-.999 divided like 620.12-.19
 E g 721.994 Glas

722-724 Architectural styles

Here are class works on architectural styles as such. General and local architectural history and geography are classed in 720.9 divided like 930-999. As all subsections of 722-724 are further subdivided by regions and periods like 930-999, an extra 0 must be added before applying the form divisions as given in Table 2 after the Relative Index, e.g. 722.7 Ancient Roman architecture, 722.703 Roman architecture during the period 509-264 B.C., 722.7003 Cyclopaedia of Roman architecture. Architectural discussions of individual ancient buildings should usually be classed by style in 722, of all other buildings by function in 725-728, e.g. the Parthenon 722.804, York cathedral 726.65. See also in City planning 711.424 Cities according to architectural style, 711.65 Buildings according to architectural style.

Detailed subdivisions have been worked out for the various regional and period styles in the full expansion available at the Decimal Classification Editorial Office, Library of Congress, Washington, D.C. Illustrative examples are given below under the various English styles.

SUMMARY

722	Ancient, Oriental, Pagan			
.1	Chino-Japanese	.5	West Asiatic	
.2	Egyptian	.6	Classic	Greco-Roman
.3	Phenician	7	Roman	
.4	Southeast Asiatic	8	Grecian	
	.9	Other. American Indian, Celtic, etc.		
723	Medieval, Christian, Mohammedan			
.1	Early Christian	.4	Romanesque	
2	Byzantine	5	Gothic	
3	Mohammedan, Saracenic, Moslem			

724	Modern					
.1	Renaissance	Neoclassic	5	Eclecticism	6	Néo-Grec
.2	Classic revival	19th		Renaissance adaptations and revivals		
.3	Gothic	* Roman-		Queen Anne, Georgian, etc.		
	ticism		.7	Timber	Half-timber	Swiss
.4	Victorian Gothic		.8	Romanesque revival	.9	Other

722 Ancient, Oriental, Pagan architecture

Seven wonders of ancient world. All subsections may be further subdivided like 930-999, e.g. 722.1131 Ancient, 722.1151 Modern styles of Chinese architecture. See also 571.8 Prehistoric dwellings.

.1	Chino-Japanese		
.11	Chinese		
.12	Japanese		
.2	Egyptian		
	See also 723.123 Egyptian early Christian, 723.31 Egyptian Mohammedan		
.3	Phenician	Tyrian	Sidonian
	See also 722.5 West Asiatic		
31	Native Phenician		
	Tyrian, Sidonian		
32	Colonial Phenician		
	Carthaginian, Cypriote		
.33	Jewish		

722.4 Southeast Asiatic styles

Cave temples See also 726 1 Religious temples

41 India

See also 723 34 Southeast Asiatic Mohammedan

413 Buddhist

414 Jaina

415 Hindu Brahman

Indo-Arian Sanskrit Northern Chalukyan Central
Dravidian Southern

42 Himalayan

43 Burmese

44 Siamese

45 Cambodian Khmer

46 Javan Malay

.5 West Asiatic

See also 722 3 Phœnician, 722 61 Aegean

51 Mesopotamian

Chaldean Babylonian, Assyrian

52 Ancient Persian

Median Achaemenian Sassanian See also 723 33 Persian
Mohammedan

53 Parthian

54 Hittite

.6 Classic Greco-Roman

For Classic orders see 729 326

61 Aegean Pelasgic Homeric

Cyclopean Minoan Mycenaean See also 722 5 West Asiatic

62 Etruscan

7 Roman

Amfitheater or Colosseum Rome (see also 725 827 Amfi
theaters in general) Pantheon Rome (see also 726 12 Roman
temples) For Roman orders see 729 326

8 Grecian (Greek) Hellenic

Acropolis Athens (see also 725 183 Citadels) Parthenon,
Athens (722 804) (see also 726 12 Greek temples) Archaic
Periclean Alexandrian, etc periods For Greek orders see
729 326

.9 Other

91 American (Pre Columbian) Indian

911 Aztec Toltec Nahuatl Zapotec
(Tzapoteco) Mexican

912 Maya Central American Yucatan

913 Incan Peruvian

917 North American (general and other)

918 South " (" " ")

92 Celtic

723 Medieval, Christian, Mohammedan architecture

Seven wonders of medieval world For method of subdivision of subsections see note under 722-724

.1 Early Christian

11 Western Latin

12 Eastern Oriental

121 Anatolian Asia Minor

122 Syrian

See also 723 31 Syrian Mohammedan

123 Coptic Egyptian North African

See also 722 2 Ancient Egyptian 723 31 Egyptian Mohammedan 723 321 North African Mohammedan

2 Byzantine

21 Armenian

22 Russian

23 Moldavian

3 Mohammedan Saracenic Moslem

31 Arabian Syrian Egyptian

See also 722 2 Ancient Egyptian, 723 122 Syrian early Christian 723 123 Egyptian early Christian

32 Moorish Moresque

321 North African

See also 723 123 North African early Christian

322 Hispano Moresque Spanish

For the Alhambra see 725 17

33 Persian Iranian

See also 722 52 Ancient Persian

34 Southeast Asiatic

Pathan Sharli Ghujerati Bengali Bahmani Bijapuri Mogul See also 722 41 Ancient and general southeast Asiatic

35 Turkish

.4 Romanesque

Pre-Romanesque Carolingian

41-48 divided like 941-948, e g

42 English

4201 Saxon

2 Norman

21 Early

23 Late

49 Other countries

Divided like 940-999 e g 723 49493 Flemish or Belgian Romanesque

723.5 Gothic Pointed Ogival

51-58 divided like 941-948, e g

52 English

5203 Plantagenet

31 Transitional

32 Early English stile Early Plantagenet

Lancet 1st pointed 13th century

35 Decorated Later Plantagenet Middle
pointed Edwardian 14th century

36 Geometric

37 Curvilinear Flowing

4 Perpendicular Rectangular Late pointed
Lancastrian Florid Flamboyant 15th
century

5 Tudor

59 Other countries

Divided like 940-999 e g 723 59492 Dutch Gothic

724 Modern styles of architecture

All subsections may be further subdivided like 940-999 (for examples see below)

.1 Renaissance Neoclassic

Divided like 940-998 e g

142 English

05 Early Transition
16th century

055 Elizabethan

061 Jacobean

062 Late Anglo-classic Anglo-Italian

Anglo Palladian Portico

Post renaissance compromise 17th 18th century

069 Queen Anne

07 Georgian

Pseudoclassic stile academic supremacy 18th
century

146 Spanish

Plateresque Griego-Romano etc.

173 United States Colonial

American

Queen Anne and Georgian

.174 179 Regional styles

Divided like 974-979 e g 724 174 New England or
northern colonial 724 1747 Dutch colonial 724 175
Southern colonial 724 1794 California mission (for
Spanish colonial use 724 172, for mission churches see
726 55)

- 724.199 Baroque Rococo
 Renaissance decline, including Italian post renaissance,
 decadenza seicento (724 19945)
- 2 Baroque
 3 Rococo
 4-9 By country divided like 940-999; e.g.
 46 Spanish
 4605 Baroque
 53 Rococo Churrigueresque
- .2 Classic revival 19th century
 .22 Roman
 .23 Greek
 .24-.29 Regional
 Divided like 940-999, e.g.
 .242 English
 07 Periods
 073 Roman phase
 074 Greek "
 .273 United States
 4 Roman phase
 5 Greek "
 .3 Gothic revival Romanticism Medieval
 revival
 342 English
 07 Early phase Castellated stile
 For later phases see 724 4 Victorian Gothic
- 4 Victorian Gothic
 Tudor or Elizabethan Gothic revival, 'battle of the styles'
- .5 Eclecticism Renaissance adaptations and re-
 vivals
 .599 Special phases
 1 Queen Anne revival and adaptations
 2 Georgian revival and adaptations
 3 Baroque " " "
 .6 Néo-Grec
 .7 Timber Half-timber Swiss stile
 .8 Romanesque revival and adaptations
 .9 Other styles
 91 20th Century
 No satisfactory name has been agreed upon to characterize
 present day styles functionalism, modernistic, streamlined,
 etc.

725-728 Special types of buildings

May also be classed under their special subjects e.g. 022 Library buildings in Library science See also in City planning 711 66
Structures according to use

725 Public buildings

Civil and industrial architecture For form divisions see Table 2
after Relative index

SUMMARY

- | | | | | | |
|-------|----------------|------------|---|----------------------------|---------------|
| 725 1 | Administrativ | Govern | 6 | Prisons | Reformatories |
| | mental | | 7 | Refreshment, bath and park | |
| 2 | Business | Commercial | | buildings | |
| 3 | Transportation | Storage | 8 | Recreation buildings | |
| 4 | Factories | Mills | 9 | Other public buildings | |
| 5 | Hospitals | Asilums | | | |
-
- | | | |
|-----|---|----------------------------|
| .1 | Administrativ | Governmental |
| 11 | Capitols | Legislative halls |
| | Houses of parliament state houses provincial national, international. For city and county buildings see 725 13 | |
| 12 | Ministries | Executive departments |
| | May be divided like 353 1 8 e.g. 725 125 Ministries of justice (see also 725 15 Courthouses palaces of justice) For government bureaus and offices see 725 132 postoffices 725 16 military buildings 725 18 | |
| 129 | Peace palaces | |
| 13 | Government bureaus and offices | Local government buildings |
| | For capitols and legislative halls see 725 11 | |
| 131 | General questions | |
| 132 | Government bureaus | Public offices |
| | For government departments see 725 12 | |
| 135 | County buildings | |
| | See also 725 15 County courthouses | |
| 136 | Township buildings | |
| 137 | Municipal buildings | |
| | City town, village halls broletto hôtel de ville rathaus etc | |
| 14 | Customs buildings | Excise offices |
| 141 | General questions | |
| 142 | Customhouses | |
| | Customs watchhouses | |
| 143 | Excise offices | Internal revenue offices |
| 144 | Mints | |
| 145 | Customs warehouses | |
| | Bonded warehouses See also 725 35 General warehouses | |
| 147 | Local taxation offices | |
| | Toll houses, toll gates octroi houses | |

- 725.15 Courthouses Record offices
Tribunals, palaces of justice; international, national, state, county (see also 725.135 County buildings), municipal and justices' courts, etc. See also 725.125 Ministries of justice
- .158 Record offices Archives buildings
- .16 Postoffices
Postal stations, etc. See also 725.124 Postoffice dept. For postoffice cars see 699
- .17 Official residences Palaces of rulers
Executive mansions International, national (e.g. Alhambra), state, local See also 728.3 City mansions
- .178 Embassies Legations Consulates
- .18 Military buildings Police stations
See also 623 Military engineering, 725.126 Ministry of war
- .181 General questions
- .182 Barracks Casernes
See also 623.612 Barracks in Military engineering
- .183 Citadels Forts Fortresses
For the Acropolis, Athens, see 722.8 See also 623.1 Fortifications in Military engineering
- .184 Armories
- .185 Guard rooms
- .186 Cantonments Army huts Drill halls
- .187 Arsensals Magazines
See also in Military engineering 623.47 Arsensals, 623.614 Magazines
- .188 Police stations
For morgs see 726.88 See also 725.62 Lockups
- .189 Other
- .19 Other public buildings
Structures for public works, etc.
- .191 Fire stations
Engin and truck houses, fire alarm and fire patrol stations, watch towers (see also 725.97 Towers in general)
- .193 Waterworks
Aqueducts, reservoirs, pumping stations, water towers (see also 725.97 Towers in general), etc. See also 728.995 Private watertanks and towers
- .194 Sewerage works Refuse disposal plants
Public sanitary works, disinfecting and cleaning stations, refuse plants, municipal incinerators
- .195 Municipal depots and yards Public work shops
Municipal stables, etc.
- .196 Public washhouses Lavoirs
Riverside washhouses, toilets, comfort stations, rest rooms
- .197 Weights and mesures offices
- .198 Public light and power plants
Electric, gas, etc. works

- 725.2 Business Commercial
- .21 Stores
 - .211 General questions
 - .212 Wholesale stores
 - .213 Retail stores Shops
 - Chain stores, branches, stalls, kiosks
 - 5 Shop fronts Show windows
 - .214 Department stores
 - .215 Mail order houses
 - .22 Mixt store, office and apartment buildings
 - Store or office buildings with halls or auditoriums (see also 725 8 Recreation halls) For apartment buildings in general see 728 2
 - .23 Office buildings
 - Insurance, law, medicin, telephone, telegraf, etc office buildings (when banking or credit feature is emfasized clas in 725 24)
 - .232 Skiscrapers
 - .233 Loft buildings
 - .24 Financial and credit institutions
 - Banks, savings banks, trust and investment institutions, safe deposit banks (see also 725 35 Safe deposit storehouses), building and loan institutions
 - .248 Pawn shops Monts de piété
 - .25 Exchanges Boards of trade
 - .251 General questions
 - .252
 - .253
 - .255
 - Commercial clubs, associations of commerce, etc Some commodity exchanges are cald Boards of trade, these should be clast in 725 253
 - .26 Market buildings
 - Wholesale, retail, shopping arcades
 - .27 Livestock markets Stockyards
 - Market crosses
 - .28 Abattoirs Slaughter houses
 - Packing houses
 - .29 Other business buildings
 - Including special rooms; e g board rooms, etc.

- 725 3 **Transportation Storage**
- 31 **Passenger stations for land transportation**
 Including combination railway and bus stations
- 311 **Small Country Suburban**
 Waiting rooms see also 725 316 Waiting rooms as parts
 of station buildings
- 312 **Large City**
 Thru terminal
- 313 **Union Junction**
- 314 **Stations on 2 or more levels**
- 315 " " **special types of railways**
 On inclined or mountain railways etc
- 316 **Parts of railway stations**
 Ticket offices waiting rooms (see also 725 311 Waiting
 rooms as separate buildings) cloak rooms platforms
 bulletin boards indicators etc.
- 317 **Stage, bus and streetcar or tramway stations**
 Post houses
- 318 **Elevated railway stations**
- 319 **Underground railway or subway stations**
- 32 **Freight houses Express buildings**
 For land transportation
- 33 **Other railway buildings**
 Railway shops roundhouses inspection pits car houses
 watertanks storehouses for railway supplies etc fueling
 structures (see also 725 364 Coal handling plants) tool houses
 guard and signal houses switch towers (see also 725 97 Towers
 in general) etc
- 34 **Dock buildings Ferry houses Marine
 buildings**
 Pier and wharf port and harbor buildings Wharf boats
 landing stages boat houses combined commercial and recrea
 tion piers (see also 725 87 Recreation piers) weirs locks water
 mills etc
- 35 **Warehouses Storehouses**
 Storage structures and yards for merchandize household
 goods etc safe deposit storehouses (see also 725 24 Safe
 deposit banks) cold storage (see also 728 97 Private ice houses
 and cold storage houses) For grain elevators see 725 362
 private granaries 728 9531 See also 725 145 Customs ware-
 houses
- 36 **Elevators**
- 361 **General questions**
- 362 **Grain elevators**
 Floating elevators etc See also 725 35 Commercial grain
 storehouses, 728 9531 Private granaries
- 363 **Malt elevators**
- 364 **Coal " Coal handling plants**
 See also 725 33 Railway fueling structures

- 725 365 Ore elevators
See also 725 431 Mine buildings 725 432 Metallurgic establishments
- .366 Sand and gravel elevators
- .367 Cement, lime and plaster elevators
- .38 Garages Service stations Livery stables
- .381 General questions Garages in general
See also 728 949 Private garages
- .382 Service stations in general
- .383 Cleaning installations
- .384 Filling stations
- .386 Bus garages
- 388 Livery stables
See ~ ~ ~ ~ ~
- 39 ' anding stages mooring
masts and pylons aerial beacons (see also 725 976 Light houses) See also 728 949 Private hangars
- .4 Factories Mills Industrial buildings
- 41 Textil, clothing and lether factories
- 411 General questions
- 412 Textil factories or mills
Linen cotton, wool silk etc mills May be divided like 677 e g 725 4123 Woolen mills
- 413 Camp equipment, tent and awning factories
May be divided like 685 53 e g 725 4131 Tent factories
- 414 Tanneries Lether factories
- 415 Lether goods factories
Harness and saddle belt shoe glove trunk and luggage factories
- 416 Fur factories
- 417 Clothing factories
May be divided like 687 e g 725 4173 Hosiery mills
- 418 Rubber and rubber goods factories
- 419 Other
- 42 Factories for chemicotecnical industries
- 421- 425 427- 428 divided like 661-665, 667-668
E g 725 4276 Paint factories For ceramic and glas factories see 725-48
- 43 Buildings for mining and mineral industries
Metal works
- 431 Mine and quarry buildings
Hedframes crushing and concentrating plants tipples washhouses, etc See also 725 365 Ore elevators
- 432 Metallurgic establishments
Ore reduction works refineries smelting works etc May be divided like 669 e g 725-4323 Copper refineries See also 725 365 Ore elevators

- 725 433 Factories and mills according to processes employed
 Forges foundries machine shops rolling mills etc. For storehouses see 725 35 woodworking shops etc see 725 44
- 434 Factories using metals, building stones and other minerals
 Factories for making articles of iron and steel hardware stoves cutlery etc of precious metals (gold silver etc) jewelry etc (for watch and clock factories see 725 438) copper and its alloys bells etc
- 435 Tool, implement and machine factories
 May be divided like 610-699 e.g. Agricultural implements 725 4353 For scientific instruments see 725 438 See also 725 442 Woodworking mills
- 436 Blacksmith shops
- 437 Lock and gun factories
- 438 Factories for making watches, clocks and other instruments of precision
 May be divided like 681 except for factories otherwise specially provided for e.g. 725 43811 Watch and clock factories
- 439 Other
- 44 Sawmills and factories for making articles of wood
 See also 725 46 Paper mills
- 441 Sawmills Lumber mills
 Lath and shingle mills
- 442 Woodworking mills and shops
 Carpenter shops planing mills sash and door box and crate factories veneer mills ornamental woodworking shops for making moldings scrollwork interior finish etc
 See also 725 435 Implement factories
- 443 Barrel factories Cooperage works
- 444 Cabinet and furniture factories
- 445 Woodenware factories
- 446 Excelsior mills
- 447 Cork factories
- 45 Vehicle factories
- 451 Carriage and wagon factories
 Sleigh and sled factories
- 452 Motor vehicle factories
 Automobile motor truck motorcycle etc factories May be divided like 629 22 e.g. 725 4524 Motor truck factories
 For bicycle factories see 725 453
- 453 Bicycle factories
- 454 Car factories
 Passenger pullman express mail freight streetcar etc. factories

- 725 455 **Boat and ship factories**
 Shipyards etc May be divided like 623 82 e g 725 455a
 Yards and factories for constructing warships
- 456 **Aircraft factories**
 May be divided like 629 133 e g 725 456a Balloon
 factories
- 46 **Pulp and paper mills and factories for making
 articles of paper**
 See also 725 44 Sawmills and woodworking factories
- 47 **Grain mills Gristmills**
 Mills for flour meal, feed etc May be divided like 633 1
 e g 725 471 Wheat flour mills
- 48 **Glas and ceramic works**
 May be divided like 666, e g 725 487 Brick and tile factories
- 49 **Other factories and industrial buildings**
 Clas here only buildings not provided for in 725 41 48
 492-499 may be divided like 620-699 e g 725 491 158 Ice
 plants 725 491 may be divided like the whole classification
 for industrial buildings not otherwise provided for
- 5 **Hospitals Asilums**
 Charitable and welfare institutions See also 725 6 Reformatories
- 51 **Sick Wounded**
 Infirmarys surgerys eye and ear hospitals lying in or
 maternity hospitals lazarets sanitariums for incurables etc
 May be divided like 362 1 e g 725 512 Dispensaries For
 inebriate asilums see 725 63 baths 725 73 watering places
 725 75 See also 725 57 Children s hospitals
- 52 **Insane asilums Madhouses**
- 53 **Idiot, imbecil, feebleminded institutions**
- 54 **Blind, def, dum asilums**
- 55 **Institutions for paupers**
 Almshouses poorhouses workhouses temporary lodgings
- 56
- 57
 Orfan asilums children s hospitals etc May be divided like
 362 7 e g 725 573 Orfan asilums For general hospitals see
 725 51 foundling asilums 725 58 See also 725 64 Juvenil
 reformatories reform schools
- 58 **Foundling asilums**
- 59 **Other**
 Soldiers and sailors homes mountain hospices, buildings of
 general relief organizations Red Cross, etc. (see also 726 9
 Buldings of religious organizations) animal asilums and
 hospitals (see also 728 948 Private veterinary rooms and live
 stock infirmaries) For spas hydros etc. see 725 75

- 725.6 **Prisons Reformatories**
 See also 725.5 Hospitals, asylums
- .61 **Prisons Penitentiaries**
 National, state, etc.
- .62 **Jails Lockups**
 Detention, cell, station houses, workhouses for vagrants, petty offenders, etc. See also 725.188 Police stations
- .63 **Reformatories for adults**
 Magdalen houses, homes for fallen women, houses of correction
- .64 **Juvenil reformatories**
 Reform schools, houses of refuge, truant schools, industrial or training schools for juvenil delinquents. See also 725.57 Child welfare institutions
- .65 **Inebriate asylums Washingtonian homes**
 See also 725.51 Sanitariums
- .66 **Homes for drug addicts**
- .67 **Internment houses and camps**
 For prisoners of war, enemy aliens etc.
- .7 **Refreshment, bath and park buildings**
- .71 **Eating places**
 Cafés, lunchrooms, pastry shops, icecream parlors, cabarets, road houses, etc.
- .72 **Saloons Barrooms Taverns**
 Tap rooms, bodegas, beer cellars, public houses (pubs), etc
- .73 **Baths**
 Warm medicated, Turkish, Russian etc. 731-737 may be used like 613.41-47, e.g. 725.735 Salt baths, and 738 used for Medicated baths. See also 725.51 Sanitariums
- .74 **Swimming baths Natatoriums**
 Open air baths
- .75 **Buildings for watering places and health resorts**
 Buildings for spas, hydros, hot springs, mineral springs, winter resorts, etc. See also 725.51 Sanitariums, 725.78 Casinos, 728.52 Resort hotels
- .76 **Park buildings**
 May be divided as needed like 717.68 Pleasure buildings in Landscape architecture, using 769 for service buildings, e.g. 725.762 Outlook towers
- .77 **Amusement park buildings**
- .78 **Casinos**
 See also 725.75 Watering places
- .79 **Other**

- 725.8 Recreation buildings**
 See also 725 22 Store and office buildings with halls or auditoriums
- 81 Music, concert and orchestra halls
 See also 725 83 Auditoriums
- 82 Theaters Buildings for shows and spectacles
- 821 General questions
- 822 Playhouses Opera houses
 Little theaters marionette pantomime and traveling theaters etc
- 823 Vaudeville houses Burlesk and variety theaters
- 824 Moving picture theaters Cinemas
- 825 Panoramas Dioramas Cycloramas
- 826 Hippodromes Circuses Coliseums
- 827 Stadiums Amphitheaters Grandstands
 Garden theaters structures for outdoor sports tennis courts etc May be divided like 796 e.g. 725 82733 Football stadiums For the Amphitheater or Colosseum of Rome see 722 7
- 828 Trailed animal menageries and theaters
- 829 Other
- 83 Auditoriums
 Halls for assemblies meetings lectures readings etc See also 725 81 Music halls 725 9* Temporary halls
- 84 Buildings for indoor games
 Bowling alleys billiard saloons pool halls halls for ping pong or table tennis etc. card halls halls for chess checkers backgammon etc. roulette halls etc For casinos see 725 78
- 85 Gymnasiums Turnhalls Athletic clubs
- 86 Rinks Motordromes Dancehalls
- 861 General questions
- 862 Skating rinks Ice palaces
 Roller skating rinks
- 863 Velodromes
 Bicycle rinks and halls motordromes autodromes
- 865 Indoor running tracks
- 866 Dancehalls
- 87 Boat houses Recreation piers
 Yacht and canoe clubs See also 725 34 Combined commercial and recreation piers
- 88 Riding halls clubs or schools
- 89 Other
- 891 Shooting galleries
 For firearms and archery
- 892 Race tracks
 For horse racing dog racing etc.

- 725.9 Other public buildings
- .91 Exhibition halls Fair buildings
See also 727 6-7 Museums and art galleries
- .92 Temporary halls Portable buildings
Religious tabernacles (see also 726 Religious architecture),
political chautauqua halls, workmen's barracks, etc. Class
here only general discussions of portable buildings, individual
buildings are classed elsewhere according to purpose, e.g. Portable
schools 727 1 For permanent auditoriums see 725 83
- .93 Workmen's clubs and institutes Guild houses
Trades union halls
- .94 Memorials War memorials
For special forms of memorials see numbers for those forms,
e.g. 721 426 Memorial arches
- .97 Towers
Usually it will be found best to class individual towers by
purpose. For tower design see 729 36. See also 721 57
Spires, etc., 725 191 Fire watch towers, 725 193 Water towers,
725 33 Railway switch towers, 726 87 Mortuary towers
- .971 General questions
- .972 Materials
May be divided like 691, e.g. 725 9722 Stone
- .973 Form Plan
Round, oblong, triangular, etc., staged, leaning, composite,
etc.
- .975 Position
Detached towers free standing, independent, wall or mural
towers, engaged pavilion, buttress towers, central towers,
gate towers (see also 721 835 Gates 728 91 Gate houses),
bridge towers (for towers as integral parts of bridges see
624 Bridges)
- .976 Purpose
Refuge, defense, keeps, donjons, pele towers, observation
or watch towers, etc., bell towers campanules, clock
towers, beacons, lighthouses (see also 725 39 Aerial beacons
in air transportation), lanterns, including lanterns as parts
of towers (see also 721 555 Roof lanterns), memorial
towers, etc. Many towers will be classed with the special
types of buildings to which they belong, e.g. 726 28
Minarets, 726 597 Church towers
- .977 Turrets
Echauguettes, bartizans, pepper box turrets, stair turrets
etc.

726 Ecclesiastic and religious buildings

See also 246 Ecclesiology, religious art, 725 92 Temporary halls, tabernacles. For form divisions see Table 2 after Relativ index

SUMMARY

726.1	Temples (nonchristian)	.6	Cathedrals
.2	Mōsks Mohammedan temples	.7	Conventual and monastic establishments
.3	Synagogs Jewish		
.4	Chapels Sunday-school buildings Parish halls	.8	Mortuary and sepulchral buildings
.5	Churches	.9	Other religious buildings

.1 Temples (nonchristian)

Chaityas, pagodas, ziggurats, vimānats, sikras teocalli, etc. See also 722 4 Cave temples, 722 7 Pantheon, Rome, 722 804 Parthenon, Athens

.11 General questions

.12-15, .19 divided by religion like 292-295, 299

Eg 726 143 Buddhist temples, 726 19219 Assyro-Babylonian temples (ziggurats, etc.) For Mohammedan temples see 726 2, Jewish temples 726 3 Mormon temples 726 5893

.2 Mosks Mohammedan temples

May be divided like 723 3, e.g. 726.22 Moorish See also 726 82 Tomb mosks

.28 Minarets

See also 725 97 Towers in general

.3 Synagogs Jewish temples

.4 Chapels Sunday-school buildings Parish halls

Christian and nonchristian

.41 Chapels

Small or accessory places of worship Chapels of ease, oratories, crypt chapels (see also 726 596 Crypts in churches, 726 82 Crypt tombs), etc. See also 726 595 Chapels in churches, 726 81 Mortuary chapels

.42 Shrines

See also 726 86 Mortuary shrines, 726 95 Wayside shrines

.43 Baptistries

See also 726 596 Baptistries in churches

.44 Tithe barns

.45 Sunday-school buildings Parish halls

- 726.5 Churches
- .51 General questions
- .52 Form
Longitudinal basilican, rectangular, cruciform, cross churches;
hall churches, hallenkirchen Byzantine, fortified, etc
- .53 By locality
- .532 Urban
- .533 Suburban
- .534 Rural Village
- .54 Parish churches
- .55 Mission or district churches
See also 726.98 Missions
- .56 Institutional and proprietary churches
- .57 Collegiate churches
- .58 By denomination
Divided like 280, e.g. 726.583 Episcopal churches
- .59 Divisions Rooms
For Sunday-school accommodations see 726.45 See also
726.81 Mortuary chapels, 726.82 Tombs
- .591 Approaches Entrances
Atrium, forecourt, porches (see also 726.592 Transeptal
porches), narthex, vestibule, entrance hall, lobby, foyer,
etc
- .592 Nave Transepts
Auditorium, aisles (see also 726.593 Chancel aisles), nave
or main aisles, forenave, crossing, transeptal chapels (see
also 726.595 Side chapels), transeptal porches (see also
726.591 Church porches in general), transept aisles and
apses, etc.
- .593 East arm Chancel
Choir and choir lofts, sanctuary, presbiterium, chancel
aisles (see also 726.592 Church aisles in general), apse,
rostrum, pulpit platform, trapezoidal end, parallel apses,
ambulatory, periapse, chevet, retrochoir, etc.
- .594 Bay design Ordinance
Ground arcade, triforium, clerestory
- .595 Side chapels
Lady chapel, chantries, saints' chapels, etc See also
726.41 Chapels as separate buildings, 726.592 Transeptal
chapels, 726.81 Mortuary chapels
- .596 Sacristies, baptistries, etc.
Prothesis diakonikon, crypts (see also 726.41 Crypt chapels
726.82 Crypt tombs), etc See also 726.43 Baptistries as
separate buildings
- .597 Towers
See also 725.97 Towers in general

726.6 Cathedrals

For forms and details see 726 5 Churches

.61 General questions

.62 Oriental

Armenian, Jacobite, Coptic, Nestorian

.63 Eastern Greek Russian

.64 Roman Catholic

.65 Protestant Episcopal

.68 Other

May be divided like 280 for denominations not provided for above

.69 Accessory structures

.691 Cloisters

See also 726 793 Cloisters as special buildings

.692 Chapter houses

.7 Conventual or monastic establishments

See also 726 97-99 Buildings of religious associations

.71 General questions

.72 Abbeys

.73 Priors

.74 Friaries

.75 Nunneries Beguinages

.76 Cels

Monastic (Carthusian, etc), anconities, hermitage cels, hermitages

.77 Accoi

Divided like 290 for nonchristian monastic establishments, lamasaries, viharas etc ; e g 726 773 Franciscan, 726 7799432 Lamasaries

.78 Other topics

.79 Special buildings Accessory structures

See also 726 4 for Chapels, 726 5 Churches, 726 692 Chapter houses, 728 9 Outbuildings

.792 Abbot's or prior's lodgings

.793 Cloisters Ambulatories

See also 726 691 Cathedral cloisters

.794 Refectories Fraters

.795 Dormitories Cels

See also 726 76 Monastic cels in general

.796 Almonries

- 726 8 **Mortuary buildings** **Sepulchral architecture**
 See also 718 Cemeteries 730 Sculpture
- 81 **Chapels**
 Mortuary cemetery sepulchral chapels undertakers chapels
 funeral parlors cemetery lodges See also 726 41 Chapels as
 places of worship 726 595 Chapels in churches
- 82 **Tombs** **Sepulchers**
 Burial places graves mausoleums tomb mosks (see also
 726 2 Mosks in general) vaults cripts (see also 726 41 Cript
 chapels 726 596 Cripts in churches) charnel houses ossuaries
 church yard monuments gravestones cenotafs memorial
 crosses mural tablets effigies etc. rock tombs (see also 726 84
 Hypogeums caves) sarcophagi (See also 731 76 Sepulchral
 sculpture
- 83 **Crematories** **Columbariums** **Cinerariums**
- 84 **Hypogeums** **Caves**
 Catacombs tunnel tombs See also 726 82 Rock tombs
- 85 **Pyramids, mastabas, etc**
- 86 **Mortuary shrines**
 Topes dagobas stupas See also 726 42 Shrines in general
- 87 **Mortuary towers**
 Towers of silence dakhmes lanterns of the ded cemetery
 beacons. See also 725 97 Towers in general
- 88 **Morgs** **Ded houses** **Mortuaries**
- 89 **Other mortuary buildings**
- 9 **Other religious buildings**
 See also 725 59 Buildings of general relief organizations
- 91 **Parsonages** **Rectories**
 Manse vicarage etc
- 92 **Bishops and episcopal palaces**
- 95 **Pilgrimage features** **Crosses** **Calvaries**
- 96 **Lich gates**
 See also 728 91 Gate houses
- 97 **Buildings of Christian associations**
 Salvation army Y M C A Y W C A etc May be divided
 like 267 e g 726 973 Y M C A buildings See also 726 7
 Conventual or monastic establishments
- 98 **Missions**
 City missions etc. See also 726 55 Mission or district
 churches
- 99 **Buildings of nonchristian religious associations**
 May be divided like 290 e g 726 996 Jewish

727 Educational and scientific buildings

For form divisions see Table 2 after Relative index

SUMMARY

727 1	Schools (elementary)	6	Museums	Herbariums
.2	Secondary schools	.7	Art galleries	Studios
.3	Colleges Universities	.8	Libraries	
.4	Professional and technical schools	.9	Other educational and scientific buildings	
.5	Laboratories		Research establishments	

.1 Schools

Elementary schools, not including dormitory or boarding schools
Kindergartens, grammar schools, village schools, etc. Special
rooms or buildings for such schools, study halls, recitation halls
and class rooms, assembly halls and auditoriums, teacherages and
teachers rooms (for gymnasiums see 725 85 laboratories and
shops 727 5, museums 727 6 libraries 727 8, outbuildings 728 9)
Also schools for special classes of persons

.2 Secondary schools

Highschools, academies, seminaries (for theologic seminaries see
727.42), boarding schools

.28 Special rooms or buildings

Dormitories, dining halls, etc. See also note on special rooms
under 727 1

.3 Colleges Universities

.31 General questions

.32-.35 may be divided like 378.152-.155

E.g. 727 343 Junior college buildings

.36 Women's colleges

.37 Men's

.38 Special rooms or buildings

Society houses (for fraternity houses see 728 46), dormitories,
dining halls, student commons, etc. See also note on special
rooms under 727 1

.39 Other

.4 Professional and technical schools

Law, theology, etc. Divided like the whole classification, e.g.
727.42 Theologic seminaries

- 727.5 Laboratories Research establishments**
Physical, chemuc, biologic, etc. Botanic and zoologic gardens, arboretums, etc. Divided like the whole classification, e g 727 552 Observatories
- .6 Museums Herbariums**
Divided like the whole classification, e g 727 65 Science museums
For art museums see 727 7. See also 069 2 Museum economy, 725 91 Exhibition halls
- .7 Art galleries Studios**
- .71-.78 Types of galleries or museums**
Divided like 710-780, e g 727 73 Sculpture galleries
- .79 Studios**
Divided like 710-780, e g 727 793 Sculptors studios
- .8 Libraries**
See also 022 Library buildings in Library science
- .81 General questions**
- .82 " libraries**
May be divided like 027, e g 727 824 Public libraries
- .83 Special subject libraries**
May be divided like the whole classification, e g 727 8361
Medical libraries
- .84 Branch libraries**
- .85 Scriptoriums**
- .86 Delivery and deposit stations**
- .87 Reading rooms**
May be divided like 022 5, e g 727 878 Children's See also 727 829 Free reading rooms and newsrooms
- .88 Special rooms and departments**
May be divided like 022 6, e g 727 8822 Accession department
- .89 Other**
- .9 Other educational and scientific buildings**
- .95 Learned society buildings**
May be divided like the whole classification, e g 727 955
Scientific society buildings
- .97 Buildings for adult education and self culture**
Lyceums, community centers, continuation schools, night schools, institutes for encouraging self culture

728 Residences

See also in City planning 711 58 Residential centers 711 667 Residences For form divisions see Table 2 after Relative index

SUMMARY

728.1	Tenements	Cheap dwellings	6	Village and country homes
2	Apartment buildings			Bungalows
3	City houses	Mansions	7	Chalets Seaside and
4	Club and secret society			mountain cottages
	buildings		8	Country seats
5	Hotels	Inns	9	Outbuildings Dependencies

.1 Tenement houses Cheap dwellings

.11 City homes of poor

12 Country tenements for poor

See also 728 68 Farm cottages

13 Workmen's tenements Cités ouvrières

Workmen's homes See also 331 833 Workmen's dwellings in Economics, 728 68 Laborers cottages

18 Temporary dwellings

.2 Apartment buildings

For apartments in store or office buildings see 725 22

21 General questions

22 Apartment houses Flats

Duplex multiplex etc

23 Apartment or family hotels

See also 728 5 Hotels

24 Bachelors apartments

25 Women's

27 Rooming, lodging and boarding houses

.3 City houses Mansions Palaces

See also 725 17 Rulers palaces

31 Between party walls Stone Concrete

32 Brick Ceramic materials

33 Wood and other materials

34 Semidetacht including end houses in city blocks Stone Concrete

35 Brick Ceramic materials

36 Wood and other materials

37 Detacht Stone Concrete

Including general discussions of mansions etc. of these special materials

38 Brick Ceramic materials

39 Wood and other materials

- 728.4 Club houses Buildings for secret societies**
- .41 General questions
- .42 Social clubs
- .43 Country clubs
 Golf, cricket, etc clubs
- .44 Young people's clubs
 Boy scouts, Campfire girls, etc. May be divided like 369 4,
 e g 728 442 Boys club buildings
- .45 Political clubs
- .46 Secret societies Fraternal organizations
 Masonic temples, Od Fellows halls, etc. Benefit, friendly or
 provident societies, burial societies, insurance fraternities, etc
 Student organizations, chapter and society houses, etc. (see
 also 727 38 General and nonsecret college society houses)
- .47 Hereditary and patriotic societies
- .471-.472 may be divided like 369.1-.2
 E g 728 471861 American legion buildings
- .5 Hotels Inns**
 See also 728 23 Apartment or family hotels
- .51 City hotels
- .52 Resort hotels
 Summer and winter resorts, etc. See also 725 75 Buildings
 for watering places and health resorts, 728 71-73 Chalets
- .53 Country inns Caravanseri Khans
- .54 Hostels Youth hostels
- .6 Village and country homes Bungalows Rural architecture**
 Small dwellings in general For country seats see 728 8
- .61 Village dwellings; on small lots
- .62 Stone
- .63 Brick Ceramic materials
- .64 Concrete Stucco
- .65 Part masonry, part wood
- .66 All wood
- .67 Farm houses
- .68 " cottages
 Laborers cottages, country homes of poor. See also 331 833
 Workmen's dwellings in Economics 728 12 Country tene-
 ments, 728 13 Workmen's tenements, 728.74 Seaside and
 mountain cottages
- .69 Other .

- 728.7 **Chalets Seaside and mountain cottages**
 Summer homes See also 728.52 Resort hotels
- .71 Chalets on plains
- .72 Seaside chalets
- .73 Mountain "
- .74 Seaside and mountain cottages
 See also 728 68 Farm cottages
- .75 Hunting seats and boxes
 Shooting boxes, hunting towers, hunt clubs
- .76 Houses on wheels
 Trailers, etc. From architectural standpoint only
- .77 Houseboats
- .8 **Country seats**
 For small country homes see 728 6
- .81 Castles (fortified)
- .82 Chateaux (unfortified)
- .83 Manor houses
- .84 Villas
- .9 **Outbuildings Dependences**

SUMMARY

- | | | | | | |
|--------|-------------------|----------------|-----|---|----------------|
| 728 91 | Porters lodges | Gate houses | .96 | Dairies | |
| 92 | Servants quarters | Cabins | .97 | Ice houses | Cold storage |
| .93 | Kitchens | Laundries | | buildings | |
| .94 | Stables | Carnage houses | .98 | Conservatories | Green- |
| | Garages | | | houses | |
| .95 | Barns | Granaries | .99 | Other | Garden houses, |
| | storage buildings | Crop | | sheds, welhouses, etc. | |
| | | | | | |
| .91 | Porters lodges | Gate houses | | | |
| | | | | See also 725 975 Gate towers, 726 96 Lich gates | |
| .92 | Servants quarters | Cabins | | | |
| | | | | Bunk houses; quarters for gardeners, coachmen, gamekeepers, etc. | |
| .93 | Kitchens | Laundries | | | |
| | | | | Including accessory structures. Sculleries; larders, butteries, commissary rooms, food stores (see also 728 97 Cold storage buildings); smokehouses, curing sheds; washhouses, drying sheds | |

- 728 94 Stables Carriage houses Garages ;
 .941 Horsestables
 Private town, farm, club, breeders and trainers, sale, racing, etc. stables See also 725 388 Livery stables
- .942 Cattle, cow and dairy stables
 Feeding, milking and calf sheds, shelters See also 728 96 Dairies
- .943 Sheep and goat stables Folds
 Sheep sheds and racks, shearing sheds, etc.
- 944 Hog houses Sties
 Pig pens, piggeries
- .945 Poultry and fowl houses
 Henhouses, laying and hatching sheds, brooders, incubator houses, ostrich, pigeon and other bird houses and shelters, aviaries, etc
- .946 Kennels Hutches
 Dog, fox and wolf kennels, catteries; rabbit, hare and guinea pig hutches, etc
- 947 Stables and shelters for other animals
 Elephant stables, apiaries, silkworm sheds, etc.
- .948 Accessory structures
 Feed rooms (see also 728 95 Granaries, barns, silos, etc.), harness rooms, farrieries, horseshoeing sheds, veterinary rooms, live stock infirmaries (see also 725 59 Public animal hospitals), dung pits, etc.
- 949 Carriage houses Garages
 Coach houses, carriage and washing sheds (for temporary shelter), hangars See also 725 381 Public garages, 725 39 Public hangars
- 95 Barns Granaries Crop storage buildings
 See also 728 948 Feed rooms 728,97 Cold storage rooms
- .951 General purpose barns
 Barns including stables, carriage houses, machine sheds, etc
- .952 Silos
 See also 728 948 Feed rooms

- 728.953 Barns for storing and processing field crops:
grain, hay, roots, etc. {
 Granaries, corn cribs, hay and straw barns, root houses,
 hop dryers, etc May be divided like 633, e g 728 9531
 Granaries See also 725 35 Commercial grain storehouses,
 725 362 Grain elevators
- .954 Barns for storing and processing fruits and
nuts
 Fruit houses, dryers, evaporators, etc May be divided
 like 634, e g 728 95411 Apple packing sheds
- .955 Barns for storing and processing garden crops
 May be divided like 635, e g 728 95564 Tomato packing
 sheds For crops represented in both 633 and 635 prefer
 728 953
- .956 Threshing and cleaning barns and sheds
- .958 Wagon, implement and machine sheds
- .96 Dairies
 Combined dairy and icehouse, milk houses, creameries, butter
 dairies, cheese houses, cheeseries See also 728 942 Dairy
 stables, 728 995 Spring houses
- .97 Ice houses Cold storage houses
 Refrigerator ice houses. See also 725 35 Public cold storage
 warehouses, 728 93 Larders, 728 95 Barns and crop storage
 buildings
- .98 Conservatories Greenhouses
 Winter gardens, hothouses, orchid and palm houses, graperies,
 ferneries, cold houses, etc For park greenhouses see 725 769
 See also 716 3 Greenhouses in Landscape architecture
- .99 Other
- .991 Garden houses Pavilions
 Summer houses, grottoes
- .992 Privies
- .993 Scale houses
- .994 Sheds
 Woodsheds, fuel sheds, etc See also numbers for special
 sheds
- .995 Wells Watersupply buildings
 Welhouses, wel curbs, pump houses, windmill towers,
 watertanks and towers (see also 725 193 Public water-
 works), spring houses (see also 728 96 Dairy houses)

729 Architectural design and decoration

Architectural details Discussions of such details in particular buildings or types of buildings may be classed under numbers for those buildings or types For design in general theory etc see 745 See also 717.4 Design of structural elements in Landscape architecture 744 Architectural drawing 747 Interior decoration also design of special types of buildings under special subjects e.g. 022.34 Design of library buildings in Library economy For form divisions see Table 2 after Relative index

SUMMARY

- | | | | | | |
|-------|---------------------------|---------------------|---|------------------------------|-----------|
| 729.1 | Elevation | Sections | 6 | Incrustation | Veneering |
| | Façades | | 7 | Mosaic | |
| 2 | Plans | Horizontal sections | 8 | Ornamental glass design | |
| 3 | Elementary forms (design) | | | Window tracery | |
| 4 | Painted decoration | | 9 | Architectural accessories | |
| 5 | Decoration in relief | | | Fixed and built in furniture | |
-
- | | | | |
|----|--|------------------------------------|---|
| .1 | Elevation | Sections | Façades |
| 11 | Composition | | |
| 12 | Distribution | | |
| | Disposition | subdivision | grouping and division of masses |
| | | repetition | contrast |
| 13 | Proportion | | |
| | Harmony | balance | symmetry |
| 14 | Light and shade | | |
| | For projection of shadows and graphics of light and shadow see | | |
| | 515.63 and 515.7 | | |
| 15 | Perspective effect | | |
| 16 | Axial and center lines | | |
| 17 | Accenting | Emphasis | |
| 18 | Sections | Vertical sections | |
| | Longitudinal | transverse | diagonal broken oblique |
| 19 | Other topics | | |
| 2 | Plans | Horizontal sections | |
| 21 | Elements required | Composition | |
| | Types of plans | formal informal picturesque | block ground |
| | floor | roof (see also 729.35 Roof design) | perspective |
| | Setting | | |
| | and purpose of building | Rooms | number size shape seating capacity etc. |
| | Lighting (see also 729.384 Window design | | |
| | and fenestration) | Acoustics | |
| 22 | Distribution | | |
| 23 | Proportion | | |
| | Harmony | balance | symmetry |
| 24 | Sequence of rooms | | |
| 25 | Circulation | Communications | |
| | Horizontal | halls | corridors etc. |
| | Vertical | placing of stairs, | |
| | elevators etc. (see also 729.391 Stair design) | | |
| 26 | Axial lines | Lines of vista | |
| 27 | Accenting | | |

729 3 Elementary forms (design)

For construction of these forms see 721 See also 711 65 Architectural details in City planning also general note under 729

31 Walls Mural decoration

For special types of mural decoration see numbers for those types for wall construction see 721.2

311 General questions

312 Types of walls

May be divided like 721 29 e g 729 3122 Partitions

313 Pane work Paneling

Horizontal and vertical divisions bay division

315 Bases Courses

For scope see note under 721 25

317 Entablatures Crowning courses

May be divided like 721 27 e g 729 3176 Parapets See also 729 392 Stair parapets

318 Moldings

32 Columnar structures

For construction see 721 3

321 General questions

Proportions taper entasis etc.

For scope of following 3 heads see notes under 721 372-374

322 Piers Pilasters

323 Columns Colonnets

324 Posts

325 Columniation Intercolumniation

Accouplement coupled columns etc

326 Orders

Classic orders (Greek Roman) Tuscan Doric proto-Doric Ionic, proto-Ionic, Corinthian composit (see also 722 6-8 Classic architecture) Atlantean Caryatid Telemonian or Persian orders colossal miniature and individual orders The orders in special architectural styles. Superimposition supercolumniation on basement attic etc orders

327 Colonnades Pilastrades

For scope see note under 721 263 See also 729 392 Stair balustrades

328 Columnar details and divisions

For scope see note under 721 38

329 Other topics

33 Arches Arcades

For scope of following subdivisions see notes under 721 41-42

331 General questions

332 Arches according to form

Circular pointed polygonal etc.

- 729 333 Arches according to architectural styles
2-4 may be divided like 722-724, e.g. 729.333342 English
Romanesque arches
- .334 Arcades Arcuation
For scope see note under 721.262
- .335 Arches according to position
- .336 " " " function
- 337 " " " construction
- 338 Details Divisions
- 339 Other topics
- .34 Vaults Domes
For construction see 721.43-47
- .341 General questions
- .342 Domes Cupolas
For scope see notes under 721.46-47 See also 729.352
Domical and cupolated roofs
- For scope of following subdivisions see notes under 721.43-45
- 343 Vaults according to form
Cylindric, pointed, polygonal, etc.
- 344 Groind vaults
- .345 Tunnel and expanding vaults
- .346 Rib and fan vaulting
- .347 Vaults according to construction
- .348 Details Divisions
Drums tambours, pendentifs, niches, mihrabs (see also
729.912 Altar tabernacles) Other details as in note
under 721.428
- .349 Other topics
- 35 Roofs Roof structures
For construction see 721.5 See also 729.21 Roof plan
- .351 General questions
- .352 Forms
Gable, ridge, span or double-pitcht roofs (see also 729.37
Wall gables), domical and cupolated roofs (see also
729.342 Domes) For other forms included here see notes
under 721.58-597
- 355 Roof openings Roof windows
May be divided like 721.55, e.g. 729.3553 Dormers
- 356 Decorativ fixtures
May be divided like 721.56, e.g. 729.3564 Roof cornices
- 357 Spires and other roof structures
May be divided like 721.57, e.g. 729.3573 Steeples, but
clas domed or cupolated roofs in 729.352
- .358 Chimneys
Various types roof, wall, etc., stack chimneys, chimney
shafts, hovelings, pots, etc. For construction see 693
Masonry construction, 697.8 Smoke flues and chimneys

- 729.36 Towers
 For construction see 725.97
- .361 General questions
- .363-.367 may be divided like 725.973-.977
 E.g. 729.367 Turrets
- .37 Gables Pediments
 Wall gables For scope see note under 721.28 See also
 729.352 Gabled roofs
- .38 Openings and their fittings
- .381 General questions
- .383 Doors
 May be divided like 721.83, e.g. 729.383 Posterns
- .384 Windows
 Penetration, lighting 3-8 may be divided like
 721.843-848, e.g. 729.3845 Ornels See also 729.21
 Lighting plans
- .386-.389 Inclosures Gratings, guards Fastenings,
 etc.
 Divided like 721.86-.89, e.g. 729.386 Balconies
- .39 Other
- .391 Stairs Ramps
 Elevators, escalators For mathematics of stairbuilding
 see 515.83 See also 694.8 Stairbuilding, 717.88 Steps,
 ramps perrons, etc. in Landscape architecture, 729.25
 Plan of vertical circulation
- .392 Stair balustrades and parapets Handrails
 See also 729.3176 Wall parapets, 729.327 Colonnades
- .393 Perrons
- .4 Painted decoration
 Painted ornament, polichromy. See also 698.1 House painting,
 729.7 Mosaic, 751 Painting
- .41 Plant or vegetable forms
 Natural and conventionalized forms, flowers, fruit, seed, stems,
 leaves, foliage, roots, etc.
- .42 Animal and human forms
 Natural and conventionalized
- .422 Animal forms
- .423 Human "
- .424 Mythologic figures
- .43 Grotesk forms Arabesks
 Fanciful forms
- .432 Grotesks
- .433 Arabesks

- 729.8 Ornamental glas design Window tracery**
 For tecnical processes see 666 1, history 748 See also 729 494
 Painted windows
- .81 Geometric stained glas windows
 - .82 Medallion " " "
 - .83 Canopy " " "
 - .84 Figure " " "
 - .85 Mosaic " " "
- See also 729 7 Mosaic decoration in general
- .86 Other kinds of stained glas
 - .87 Grisaille glas windows
 - .88 Window tracery Leded windows
 Gothic, plate, bar, geometric, flowing or flamboyant, net or
 reticulated, branch, stump, perpendicular, etc tracery See
 also 729 5 Decoration in relief
- .89 Other glas design
- .9 Architectural accessories Fixt and built-in furniture**
 See also 749 4 Fixt furniture in Decorativ arts and design
- .91 Sacramental furniture
 - .911 General questions
 - .912 Altars
 High, side etc. altars, altar tables, credences, communion
 tables Details and divisions mensa, altar slab or board,
 sepulcher, altar cavity, ambries, Easter sepulcher, tabernacle
 (see also 729 348 Niches), predella altar steps and
 ledge, retable, altar desk, etc See also 729 934 for Canopies,
 729 962 Reredoses, 729 968 Altar rails
 - .913 Fonts Font basins
 Font covers, baptismal fonts; benetiers, pulas, stoups,
 holy water basins
 - .914 Piscinas
 - .916 Confessionals
 - .917 Altar communion rails
 See also 729 968 Communion rails in general
 - .92 Rostral furniture
 Ambos, ambones, pulpits, tribunes, mimbars, lecterns, reading
 desks (see also 729 936 Reading stalls), clerks desks, prayer
 desks, predieus, etc.

- 729.93 Seats Canopies
 .931 General questions
 .932 Dais
 .933 Thrones
 Ecclesiastic, bishops thrones; monarchic
 .934 Canopies
 Of solid materials only, not including those composed of
 textil fabrics Baldachins, ciboria, peristerna, etc. See
 also 721 867 Canopy porches
 .935 Stalls Common seats
 Choir stalls (for clergy, acolites, choristers), miserere;
 sedilia, priests stalls, pews (see also 729 936 Reading pews),
 benches, theater and orchestra seats or stalls, etc.
 .936 Reading stalls or pews
 See also 729 92 Lecterns, 729 935 Pews in general
 .937 Confessional boxes
 .94 Buffets Cupboards
 Sideboards; bars, built in shelving, etc for dishes, plate,
 books, etc; dish and plate cupboards, bookcases
 .95 Fireplaces
 Mantels, chimney and mantelpieces, chimney hoods, mantel-
 shelves and boards; chimney corners and seats, ingle nooks;
 hearths, hearthstones, overmantels, etc. For construction
 see 697 1
 .96 Screens Railings Percloses
 See also 721 292 Partitions, 721 875 Window screens
 .961 General questions
 .962 Ecclesiastic screens
 Chancel, choir, sanctuary screens rood screens, jubas,
 iconostases, hawkal screens, altar screens, reredoses,
 pardon, organ, chapel, baptistry, etc. screens
 .963 Mortuary and tomb screens
 .964 Domestic screens
 .968 Railings
 Altar, chancel, communion, etc rails (see also 729 917
 Communion rails as parts of altars)
 .97 Organ cases
 .98 Lighting fixtures
 Lusters, chandeliers, girandoles candelabrams, wall brackets,
 sconces, appliqués, etc See also 749 63 Artistic lighting
 fixtures in general design
 .99 Other

730 Sculpture Plastic arts

See also 718 Cemeteries monuments, 721 563 Roof reliefs, 726 8 Mortuary architecture, 729 5 Architectural decoration in relief, 745-749 Industrial decoration and design, also special applications, e.g. 712 35 Use of models and modeling in Landscape architecture
For form divisions see Table 2 after Relative index

731 General questions

Materials, methods, etc.

SUMMARY

731.1	Composition	Design	.5	Representation styles and methods
.2	Materials	Mediums		
.3	Equipment		.7	Types of sculptured objects by purpose and form
.4	Technic		.8	Subjects represented

.1 Composition Designs for sculpture

.2 Materials Mediums

Sculpture according to materials used. For ivory, bone, shell, etc. see 736 6, ceramic materials 738, metals 739

.21 General questions

.22 Wood

See also 694 6 Joinery, 736 4 Wood carving, 745 51 Wood work in Arts and crafts, 749 Artistic furniture

.23 Natural stone

May be divided like 553 5, e.g. 731.231 Marble For pointing, stone cutting see 731.46, stone carving 736 5

.24 Artificial stone Concrete

.25 Plastic materials

.251 General questions

.252 Clay and similar earthy materials

Clay modeling Plastilina, plastine, pâte plastique, plasticin; plaster, plaster of Paris, gesso duro, etc. See also 731 26 Earthy minerals, 738 Ceramic arts

.253 Wax Ceroplastics

Cire perdue, waste or lost wax process; wax figures, colored, costumed; paraffin, etc. See also 746 8 Wax work, wax flowers

.254 Snow

.255 Soap

Including soap carving

.256 Butter

.257 Salt, flour and water

.258 Papier maché

.259 Other

- 731.26 **Earthy minerals**
May be divided like 553 6, e g 731 263 Alabaster, but clas
sculpture and modeling in clay and similar earthy materials
in 731 252
- .27 **Composit sculpture**
Sculpture in more than 1 type of material Chrisele-
fantin, gold and ivory (see also 736 62 Ivory work, 739 22
Goldsmithing), acrolithic, wood and stone, etc
- .28 **Coloring materials**
Colord sculpture, polichrome sculpture, patina, patinating
For use of color by ancient classic sculptors see 733 128
- .29 **Other materials**
- .3 **Equipment**
Furniture framework, irons, armatures, butterflies, clay-
boxes stools stands platforms, lights, etc Tools hammers,
prizing tools, chisels, boasters, gouges, claw or tooth tools,
round nosed tools, sharps etc Machines, protectors, wrap-
ping cloths, syringes, models, etc
- .4 **Tecnic**
For coloring see 731.28
- .41 **General questions**
- .42 **Modeling**
- .43 **Molding**
- .44 **Stamping**
- .45 **Casting**
- .46 **Pointing Stone cutting**
See also 736 5 Stone carving
- .47 **Firing Baking**
- .48 **Restoration of sculptures**
- .49 **Other**
- .5 **Representation stiles and methods**
- .52 **Stiles**
Grotesk, idealstic, naturalstic, realstic, etc. Period and
national stiles ar clast under period and country numbers
e g Classic 733, Gothic 734 25
- .53 **In the round**
- .54 **Reliefs**
High, half, low and hollow relief Special applications of
relief portals, doors, friezes monumental reliefs (see
also 731 76 Monuments) See also 698 8 Relief work in
building, 729 5 Architectural decoration in relief, 736
Carving
- .7 **Types of sculptured objects by purpose and form**
- 72 **Decorativ uses**
Vases (sculptured only, for vases in general see 738 39),
etc. For candelabrams see 749 63
- .73 **Statues**
May be divided like 704 94 e g 731 7332 Animal statues

- 731.74 Busts
 .75 Masks
 .76 Monuments
 Public, religious, sepulchral mausoleums sarcophagi, effigies, incized slabs, gravestones (see also 726 82 Sepulchral architecture) See also 718 66 Monuments in cemeteries
 731 54 Monumental reliefs For monumental brasses and bronzes see 739 51-52
- .8 Subjects represented
 May be divided like 704 94, e g 731 86 Symbolic sculptures
- 732 Ancient sculpture
- .1 General questions
 Materials methods, etc May be divided like 731, e g 732 14 Tecnic
- .2 Primitiv
 See also 571 73 Sculptures in Archeology
- .3-.9 By country and period of origin
 3-6 9 divided like 933-936, 939 e g 732 55 Ancient Persian sculptures 7 Chinese, 8 Egyptian For Greek and Roman sculpture see 733
- 733 Classic or Greek and Roman sculpture
- 1 General questions
 Materials methods, etc May be divided like 731, e g 733 128 Colord sculpture
- 3 Greek sculpture
- 31 General questions
 Materials, methods, etc May be divided like 731, e g 733 314 Greek sculptural tecnic
- .38 By period and locality of origin
 Divided like 938 e g 733 3805 Greek sculptures of the Peloponnesian war, 431-404 B C, 733 385 Athenian sculptures
- .5 Roman sculpture
- .51 General questions
 Materials methods etc May be divided like 731, e g 733 514 Roman sculptural tecnic
- 57 By period and locality of origin
 Divided like 937, e g 733 5702 Sculptures of the Roman republic 509-31 B C, 733 575 Etruscan sculptures
- 734 Medieval sculpture
- .1 General questions
 Materials, methods, etc May be divided like 731, e g 734.14 Medieval sculptural tecnic

SCULPTURE

- 734.2 **Stiles**
 .24 **Romanesque**
 .25 **Gothic**
 .4-.9 **Class by country and period of origin**
 Divided like 940-999 e.g. 734.4202 English sculpture during
 the Norman period, 1066-1154
- 735 **Modern sculpture**
 .1 **General questions**
 For materials and methods see 731
 .2 **Stiles**
 May be divided like 724, e.g. 735.21992 Baroque sculptures
 .4-.9 **Class by country and period of origin**
 Divided like 940-999, e.g. 735.42081 English Victorian
 sculptures
- 736 **Gliptics Carving**
 For soap carving see 731.255, coins and medals 737. See also
 417 Inscriptions, 731.54 Reliefs, 739.2 Work in precious metals,
 745-749 Industrial decoration and design

SUMMARY

- | | | | |
|-------|--------------------------------|----|----------------------------|
| 736.1 | General questions | 6 | Ivory, horn, bone, etc. |
| .2 | Gems | | carving |
| .3 | Seals Stamps Signets | .7 | Fans, carving and painting |
| .4 | Wood carving | .8 | Hallmark |
| .5 | Stone " | .9 | Other |
-
- .1 **General questions**
 Carving of special objects, etc
- .2 **Gems**
 Cameos, intaglios, scarabs, jade, jet, etc Special stones*
 diamonds, rubies, etc
- .3 **Seals Stamps Signets**
 See also 929.8 Coats of arms, crests
- 31 **General questions**
- .32 **Materials**
- 33 **Equipment**
- 34 **Tecnic**
 Designs, dies, diesinking, matrix, seal and counterseal,
 obverse and reverse, impression, etc
- .36 **Seals class by form**
 Disk, cylinder, etc.
- .37 **Seals class by institutions or persons**
 Seals of chief rulers sovereigns, presidents, etc. Feuda-
 tory, national, state or local seals Seals for special
 occasions, of organizations, corporations, civil and religious
 societies; personal seals, etc.

- 736.4 **Wood carving**
 Scroll work See also 731 22 Wood sculpture, 745 51 Wood work in Arts and crafts, 749 Artistic furniture
- .46 **Pyrography**
 Including pyrography on leather. See also 745 53 Artistic leather work in general
- .5 **Stone carving**
 See also 731 23 Natural stone sculpture in general, 731 46 Stone cutting
- .6 **Carving of ivory, horn, bone and similar materials**
 See also 745 55 Ivory, etc in Arts and crafts
- .61 **General questions**
- .62 **Ivory**
 See also 731 27 Chryselephantin work
- .63 **Horn**
- .64 **Bone**
- .65 **Shel**
- .67 **Amber**
- .68 **Netsukes**
- .7 **Fans, carving and painting**
 See also 391 4 Costume accessories
- .8 **Hallmarks**
 See also under special materials, e g 738 88 Potters' marks
- .9 **Other**
- 737 **Numismatics Medals Coins**
 Artistic and historical aspects See also 332 4 Coins and coin age, as money, 351 822 Coinage and money in legislation, 417 Epigraphy, 736 Glyptics, seals, 745-749 Industrial decoration and design, 760 Engraving

SUMMARY

737 1	General questions	3	Counters	Tokens
.2	Medals Medallions	.4	Coins	

.1 **General questions**.2 **Medals Medallions**

Objects of art commemorative of an event, fact or individual Decorations, military medals (see also 355 134 Military insignia), medals of award prizes, competitive, shooting, school and scholarship medals, etc.; medals, plaques or insignia establishing identity of agents, professional medals, lodge insignia, talismans, amulets, curative medals, etc.

SCULPTURE

- 737-3 Counters Tokens Jettons**
 Counters or markers or money of account Fees of presence
 Mint counters or token money Legal tender May be
 divided like 737 4 e g 737 34 Tecnic designing etc.
- .4 Coins**
- 41 General questions**
- 42 Coins clast by material**
 Iron and steel, precious metals etc. wood lether and other
 nonmetallic money
- 43 Equipment**
 Tools machines dies
- 44 Methods of manufacture Tecnic**
 Designing Casting Repoussé process Coining or mint
 ing Valuation and rating of bullion recovery of values
 from mint sweep assaying melted bars pining telling
 etc
- 46 Coins clast according to size and pattern**
 Size weight shape type or device legend inscription etc
- 47 Coins clast according to issuer or use**
 Siege or obsidional money coins of religious orders
 bishops etc. export money coins used as ornaments etc
 For scope of this number see 736 37
- 738 Ceramics Porcelain Pottery**
 Clas here only studies relating to the art tecnologic studies on
 ceramics or clast in 666 See also 571 Prehistoric archeology
 731 252 Clay modeling 745 749 Industrial decoration and
 design

SUMMARY

- | | | | | |
|-------|---------------------|---|-------------------------|-------------------|
| 738 1 | General questions | 5 | Mosaics | Ornamental stones |
| 2 | Porcelain Chinaware | 6 | Baked clay | Terra cotta |
| 3 | Pottery Stoneware | 8 | Special ceramic objects | |
| 4 | Enamels | | | |
-
- .1 General questions**
- 12 Ceramic materials**
 General discussions
- 13 Equipment Tools**
- 14 Tecnic Processes**
 Modeling casting glazing and enameling (see also 738 4
 Enamels) firing baking etc
- 15 Decoration**
 Ceramic painting (see also 751 Painting in general)
 photoceramics transfer printing graffiti decoration
 slip or barbotin decoration etc.

- 738.2 Porcelain Chinaware**
 Dishes tableware etc
 21 General questions
 212- 214 like 738 12- 14
 Eg 738 214 Tecnic
 22 Decoration
 China painting etc
 23 Biscuit or unglazed ware
 24 Glazed
 25 Hard
 26 Soft
 27 Special varieties
 Armorial china Dresden or Meissen Sèvres etc
 28 Special articles
 29 Other topics
- .3 Pottery Stoneware Earthenware**
 31- 32 like 738 21- 22
 Eg 738.32 Pottery painting
 33 Stoneware Grès
 Vitreous or salt glazed etc
 34 Earthenware Crockery
 Soft unglazed lustrous hard glazed (led ledless),
 enameld (see also 738 4 Enamels)
 37 Special varieties
 Delft Faience Majolica Wedgwood etc.
 38 Special articles
 Jars, jugs, pitchers, vases (Portland vase) etc. Use as
 general number for vases Vases may also be class by
 process (e.g. 731 72 Sculptured vases) by material (e.g.
 738 28 China vases) by use (e.g. 749.75 Vases as artistic
 furniture) etc.
- .4 Enamels**
 See also 729 65 Architectural decoration in enamel 738 14
 Enameling 738 34 Enameld earthenware
 41- 42 like 738 21- 22
 Eg 738 42 Painting enamel ware
 43 Opaque enamels
 Champlevé incized Cloisonné, etc.
 44 Basse-taille Transparent enamels
 45 Incrusted or inlaid enamels
 Miniature enameling

SCULPTURE

- 738.46 Enameld lava, slag or scoria
 .47 Special varieties
 .48 " articles
 .49 Other topics
 .5 Mosaics Ornamental stones
 .52 Mosaics
 See also 729 7 Use of mosaics in Architecture
 .53 Ornamental stones
 .6 Baked clay Terra cotta
 Artificial stone For clay modeling see 731 252
 .62 Ornamental brick
 .63 " tile
 Ornamental casings, storied and pictorial tiles
 .8 Special objects in pottery and ceramics
 .82 Ceramic stoves
 .83 " lighting fixtures
 Lamps, candlesticks, etc See also 749 63 Artistic lighting
 fixtures in general
 84 Ornamental ceramic figures
 Statuets, Tanagra figurines, etc
 .85 Ceramic braziers
 .88 Marks (potters' marks)
 739 Metal arts Bricabrac
 See also 671 Metal manufactures 745-749 Industrial decoration
 and design

SUMMARY

- | | | | |
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| 739 1 | General questions | .4 | Ironwork |
| .2 | Work in precious metals | .5 | Other metalwork |
| .3 | Artistic horology | .7 | Armor work |
| | | .8 | Bricabrac |
| .1 General questions | | | |
| .13 | Equipment | Tools | |
| .14 | Tecnic | Processes | |
| | Modeling, metaloplasty, molding, stamping, casting,
forging | | |

- 739 15 **Decoration**
 Coloring painting enameling hammering beating
 repoussé chasing incrusting niello etc.
- 18 **Special articles**
- .2 **Work in precious metals**
 See also 671 Precious metals manufactures 736 Glyptics
- 21 **General questions**
- 212 **Alloys and other materials**
- 213-215 like 739 13-15
 E.g. 739 215 Decoration
- 217 **Special varieties**
 Sheffield etc
- 218 **Special articles**
- 2 **Religious, ecclesiastic articles**
 See also 247 Sacred vessels and ornaments
- 3 **Tableware Plate**
- 4 **Receptacles**
 Boxes cups vases etc
- 8 **Marks**
- Each of following 739 22 24 may be divided like 739 21 e.g.
 739 2283 Gold plate
- 22 **Goldsmithing**
 See also 731 27 Chryselephantin work
- 23 **Silversmithing**
- 24 **Platinum work**
- 27 **Jewelry**
 Rings necklaces pendants bracelets brooches clasps
 chains earrings diadems aigrets crescents garter buckles,
 mounted stones and pearls etc May be divided like
 739 1 with 739 272 Materials alloys etc See also
 391 7 Jewelry as costume
- .3 **Artistic horology**
 Artist c watchcases pendulums chimney or mantle clocks
 May be divided like 739 1 & 27 e.g. 739 32 Materials
 739 35 Decoration See also 681 11 Watch and clock making
 749 74 Artistic clock cases

Numbers for each of the following types of metal work in 739.4-.58 may be divided like 739.21; but note special subdivisions under Copper work 739.51-.52 and Tin and pewter 739.53, each of which may be divided like 739.21; e.g. 739.45 Decorative hammering of ironwork, 739.5125 of art bronzes

739.4

Ironwork

Ornamental work with iron, cast or wrought, and steel Forging, beating, hammering Grills, doors, balcony motifs, imposts, knockers, balustrades, ornamental nails, etc. See also 672 Iron and steel manufactures

.5

Other metals

.51

Copper work **Copper ware**

.511

General questions

.512

Art bronzes

Cases and boxes, settings for furniture, toilet articles, etc., gilded bronzes

.52

Bras **Bras ware****Monumental bras**

.53

Tin **Pewter**

.532

Tin ware

.533

Pewter ware

.54

Led work

.55

Zinc "

.56

Nickel

.57

Aluminum

.58

Chromium

.59

Other

.7

Armor work

Arms and armor. Ancient armor. Trophies of arms. From point of view of ornamentation of arms only For manufacture see 623.4 and 683; for use see 355. See also 399 War customs

.71

General questions

.72

Side arms

Sabers, swords, daggers, lances, pignards, dirks, bayonets, etc

.73

Missal wepons**Crossbow, longbow, arrows, etc.**

.74

Firearms

Portable or light muskets, guns pistols, revolvers, etc.; nonportable or heavy artillery, cannon, howitzers, etc.

.75

Defensiv arms**Armor, cuirass, helmet, shield, etc.**

.8

Bricabrac**Art curiosities and knick knacks, ephemeral art objects**

740 Drawing Decoration Design

See also special applications e.g. 659.1323 Pictorial advertising
For form divisions see Table 2 after Relative index

741-744 Drawing

See also 751 Painting

741 Freehand drawing Illustration Caricatures Cartoons

Collections on any subject go with that subject with reference from 741

SUMMARY

- | | | | | |
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| 741.1 | General questions | 6 | Illustration | Drawing for |
| 2 | Mediums | | reproduction | |
| | Drawing instruments | 7 | Sketching | Chalk talks |
| 3 | Equipment | | Silhouettes | |
| 4 | Technic | 8 | Other topics | |
| 5 | Caricatures | 9 | Collections of drawings | |
| | | | | |
| .1 | General questions | | | |
| .2 | Mediums | | Drawing instruments | |
| | Including under each methods of use | | | |
| 21 | General questions | | | |
| 22 | Charcoal | | | |
| | Charcoal and color carbon pencil and chalk stump drawing | | | |
| 23 | Chalk | | Crayon | |
| | Black white colored pastels sanguine or red etc. | | | |
| 24 | Led pencil | | Plumbago | |
| 25 | Silver point | | | |
| 26 | Pen and ink | | | |
| 27 | Watercolor drawing | | Monocromes | |
| 28 | Direct oil drawing | | | |
| 29 | Other | | | |
| 3 | Equipment | | | |
| | Drawing surfaces, papers bristol boards etc. erasers coloring materials pigments watercolors fixatives furniture drawing boards supports easels boxes and cases for drawings, etc. drawing accessories | | | |
| 4 | Technic | | | |
| | For perspective see 742 art anatomy see 743 But class here discussions of technic in general See also 751.4 Painting technic | | | |
| 41 | General questions | | | |
| | Elements, fundamentals Good taste appropriate medium mood and character of subject to be expressed etc. | | | |
| 42 | General drawing methods | | | |
| | Drawing from nature models and their use drawing from imagination use of photographs etc. | | | |

- 741 43 Composition
 43¹ General questions
 .432 Balance Proportion Symmetry
 Obvious, occult etc
 .433 Sequence Rhythm
 Of continuation or repetition of alternation, of graduation or progression, etc
 .434 Harmony
 By continuation, repetition recurrence, by value contrasts by color contrasts and intensities by measure, shape variety, etc.
- .44 Line Outline
 Straight lines angles, curves, spirals, etc Freehand drawing of natural forms, drawing and modeling of solid objects in line, silhouette (for silhouettes in general see 741 7), shade and shadow, local color and surface, etc.
- 45 1
 istics of objects
 light, chromatic and achromatic sensations brightness
 high lights Reflections and reflecting power Shadow
 and cast shadow, shadow projection Values measurement of brightness, influence of color, light and color values etc See also 742 Perspectiv
- .5 Caricatures Cartoons
 Grotesk and satiric drawing Mediums, methods Types political, etc For special purposes newspapers magazines, books, etc Caricatures and cartoons of special individuals are preferably classed in biography 920 See also 741 6 Drawing for reproduction, also special applications, e g 659 1323 Cartoons in Advertising
- .58 Moving picture cartoons
 See also 778 58 Drawn moving picture films
- .6 Illustration Drawing for reproduction
 See also 741 5 Caricatures, cartoons 744 5 Reproduction of drawings
- .61 General questions
 Principles, elements
- .62 Class by mediums
 May be divided like 741 2, e g 741 626 Pen and ink illustration
- 63 Class by subject
 May be divided like 704 94, e g 741 634 Buildings
- .64 Book illustration
 .642 Children's books
 .644 Book covers
 .65 Magazine illustration
 .66 Newspaper "

- 741.67 Commercial advertizing Posters
 See also in Advertizing 659 1323 Illustrations, 659 134 Posters
- .68 Greeting cards, calendars, etc.
- .69 Other topics
- .7 Sketching Chalk talks Silhouets
 Blackboard drawing
- .8 Other topics
- .9 Collections of drawings
- .91 By artist
- .92 " school
- 93-99 by place and time of origin, divided like 930-999
 E.g. 741 9732 Collections of American colonial drawings
- 742 Perspective Scenography
 See also 515 6 Perspectiv geometry, 741 45 Light and shade, 744.45 Projections
- .1 General questions
 Picture plane, perspectiv plane or plane of delineation, reference points, etc
- .2 Plane perspectivs
 For pictures on flat surfaces
- .3 Curvilinear perspectivs
 For pictures on curvd surfaces Cylindric or panoramic perspectivs (for pictures on concave surfaces), spheric perspectivs
- .4 Linear and conic perspectivs
 Parallel or 1 point, angular or 2 point, diagonal, oblique or 3 point perspectivs
- .5 Aerial perspectiv Skiagraphy
- .6 Distortions and corrections
- .8 Special viewpoints
 Bird's-eye perspectiv, etc
- 743 Art anatomy Life school Figure drawing
 For technic of line and outline see 741.44 See also 573 6 Anthropometry, 611 Anatomy in general, 757 Painting of human figure
- .1 General questions
- .2 Action in art Pose Expression
- .3 Types of representation
 Actual (represents subject exactly), schematic; ideal conception or figure (constructed from mean proportion of several types)
- .4 Human body
- .41 General questions
 Proportions of human body
- .42 Racial studies
- .43 Men
- .44 Women

DRAWING

- 743 45 Children
- .46 Skeleton
- .47 Muscular system Ecorché
- .49 Parts of the body
 - Regional anatomy. May be divided like 611 9. e.g.
 - 743 491 Head
- .5 Draperies
- .6 Animal life
- .61 General questions
 - Proportions, skeleton, muscular system, etc.
- .62-.69 Special animals
 - Divided like 592-599, e.g. 743 682 Birds
- .7 Plant life
- .71 General questions
- .72 Trees
- .73 Fruit Berries
- .74 Vegetables
- .75 Grains Seeds
- .76 Flowers
- .77 Weeds
- .78 Special plants
 - 783-789 may be divided like 583-589, e.g. 743 78337
 - Roses
- .79 Special parts of plants
 - Leaves, stems, roots, etc. May be divided like 581.49,
 - e.g. 743 797 Leaves

744 Mathematical and scientific drawing

Mecanical drawing

Instructions for architectural and mathematical drawings, with demonstrations (if any) subsidiary. See also 515 Descriptive geometry and projections (which prefer for textbooks with mathematical demonstrations in scientific order), 621.71 Drafting room in Engineering

SUMMARY

- | | | | |
|-------|-----------------------|----|-------------------------------------|
| 744 1 | General questions | .4 | Procedure Tecnic |
| .2 | Drafting studios | .5 | Reproduction of drawings |
| .3 | Furniture Instruments | .8 | Storage Preservation and protection |
| | Materials | | |

- .1 General questions
- .2 Drafting studios

Location and arrangement, organization and routing of work; drafting studio practis

744.3

Furniture Instruments Materials

Drawing boards, tables, compasses and dividers, drawing pens and pencils rulers, squares, triangles; instruments for drawing curv'd lines ellipsograf, French curves, splines, etc
 Universal drafting machine, pantograf or pantograf, omnigraf, scales, protractors Paper, inks erasers, shields, soapstone and other accessory materials for linear drawing design

.4 Procedure, methods and conventional rules of drafting**.41 General questions****.42 Types of mathematical and scientific drawing**

Sketches, mechanical, architectural structural, working and contract drawings, display and competitiv drawings, etc.

.428 Map drawing

Topographic maps, etc Scale, north point, etc See also 526 8 Map projection

.43 Special procedure and methods of executing drawings

Rules and conventions for using different strokes and colors Rules of procedure, representation, dimensioning, specifications lettering, titling, checking, etc

.44 Instructions in execution, mounting, etc.**.45 Projections**

Orthografic, isometric, oblique, cavalier, cabinet, clinografic, spheric, etc. For perspectiv projections see 742
 See also 515 Descriptiv geometry

.5 Reproduction of drawings

See also 741 6 Drawing for reproduction

.51 General questions**.52 Tracings for reproduction****.53 Mecanical means of reproduction**

See also 778 12 Direct and camera copying

.532 Blueprints

Blueprint reading. See also in Photography 772 22
 Blueprint processes

.533 Photostats**.54 Reduction****.55 Enlargement****.58 Corrections on reproductions****.8 Storage Preservation and protection**

Files for drawings, tracings, reproductions, frames and protectiv coverings; etc. See also 025 177 Library treatment of art material

745-749 Industrial decoration and design

Class here discussions dealing with these subjects from artistic side in a general way or when not more specifically provided for elsewhere See also in Relative index references under Decoration, Furniture, Lighting For related material see

090	Book rarities	730	Sculpture
391	Costume	736	Glyphics
600	Industrial arts	737	Numismatics
652	Writing	738	Ceramics
655	Printing and publishing	739	Metal arts
720	Architecture	760	Engraving
		790	Amusements Hobbies

SUMMARY

745	Arts and crafts	Design	
.1	General questions	.6	Ornamental lettering
.2	In industry		Heraldic design
.3	" the home	.7	Transfer pictures
.4	Design	.8	Composit representations
5	Arts and crafts by materials used	9	Other
746	Fanciwork	Art needlework	
.1	General questions	5	Beadwork
.2	Laces Tullies	.6	Batik
.3	Art tapestry	7	Handmade rugs
	Hangings	.8	Wax work
.4	Needlework	9	Other
747	Interior decoration		
.1	General questions	.5	Upholstery Draperies
.2	By country and period	.6	Furniture
	Stiles	.7	Of special rooms
.3	Ceilings Walls	8	" " buildings
.4	Floors Floor coverings	9	Special decoration, etc.
748	Glas	Windows	Mirrors
749	Artistic furniture	Fixtures	Cristal
.1	General questions	5	Ornaments
.2	Stiles by country and period	.6	Special ornamental work
.3	Special articles of furniture	.7	Heating and lighting fixtures
.4	Fixt furniture		Ornaments

745 Arts and crafts Design

Comprehensiv title for arts of decorativ design and handicraft;

- .1 General questions
Arts and crafts movement, revival of decorativ art
- .2 Arts and crafts in industry
According to kind of work May be divided as far as practicable like the whole classification, e.g 745.2671 Arts and crafts in metal manufactures

- 745-3 Arts and crafts in the home**
 According to kind of work May be divided as far as practicable like the whole classification, e g 745 3671 Metal arts and crafts in the home See also 746 Papiwork
- .4 Design**
- .41 General questions**
- .42 Pure design**
 General principles elements composition
- .43 Applied and decorative design**
 General principles, elements composition
- .44 Stiles**
 Various motifs arabesk, fantastic, geometric, grotesk, etc Various cultures primitiv, Jewish, Mohammedan, etc Schools or periods rococo, etc
- .5 Arts and crafts class by material used**
 See also 635 9663 Use of flowers as ornamentation, 738 Ceramics, 739 Metal arts in general
- .51 Woodworking**
 Cabinet work, marquetry, inlaying, mosaic (see also 747 33 Mosaic work in interior decoration), lacerd wood (see also 667 7 Lacker), etc See also 674 Lumber manufactures 684 Carriage and cabinet making, 694 7 Ornamental joinery, 731 22 Wood sculpture 736 4 Wood carving, 736 46 Pyrography, 749 Artistic furniture
- .52 Textil arts**
 May be divided like 677 Textil manufactures, e g 745 5276 Passementerie See also 745 58 Basketry, 746 Laces, tulles, tapestry hangings, batik, handmade rugs
- 53 Lether Fur**
 Cordovan and furniture lethers, chased, embost, gofferd, gilded, etc lethers, morocco work, etc See also 675 Lether and fur manufactures, 685 Saddlery, shoemaking, etc, 686 Bookbinding, 736 46 Pyrography
- 537 Fur**
- .54 Paper**
 Decorated and painted papers, furniture papers, hanging or wall papers (see also 747 35 Wall coverings) Objects of paper and paper pulp Artistic watermarks For bookplates see 097 See also 676 Paper manufactures
- .55 Ivory, horn, bone, shel, etc.**
 See also 736 6 Glyptics
- .56 Metals**
 See also 671 Metal manufactures, 739 Metal arts in general
- .57 Rubber and similar products Celluloid**
 See also 678 Rubber manufactures, 679 Celluloid manufactures
- .58 Basketry**
 Raffia work, etc. See also 677 543 Basket weaving industries, 745 52 Textil arts
- .59 Other**

- 745.6 Ornamental lettering Heraldic design
Alfabetts, cifers, monograms See also 751 Painting
- .66 Heraldic design
See also 929.6 Heraldry
- .67 Manuscript illumination
See also 091 Manuscripts
- .7 Transfer pictures Decalcomania
See also 747.94 Stencil decoration, 751 Painting
- .8 Composit representations
Cycloramas, etc See also cosmoramas, cycloramas, dioramas,
panoramas in Relativ index
- .9 Other
- 746 Fanciwork Art needlework
See also 745.3 Arts and crafts in the home, 745.52 Textil arts
- .1 General questions
- .2 Laces Tullies
See also 677.65 Lace and tulle manufactures
- .3 Art tapestry Hangings
Cartoons for tapestries Hangings of churches, museums,
public buildings, etc Bayeux, Gobelin, etc. tapestries. See
also 677.64 Tapestry manufactures, 747.35 Wall coverings,
751 Painting
- .4 Needlework
For basketry, raffia work see 745.58 See also 646.2 Domestic
economy
- .41 General questions
- .42 Sewing Smocking
- .43 Knitting Crochet Tatting
For crocheted rugs see 746.73
- .44 Embroidery
Stitches, stamping designs Cutwork crewel work,
drawnwork, hardanger, skeleton leavs etc
- .444 Ecclesiastic embroidery
See also 247.7 Religious vestments, etc.
- .445 Samplers
- .45 Appliqué
- .46 Ornamental quilting
- .47 " patchwork
- .48 Couching
- .49 Other
- .5 Beadwork
For passementerie see 745.5276
- .6 Batik
- .7 Handmade rugs
For artistic rugmaking in general, including oriental rug
see 745.52 (745.52643)
- .71 General questions
- .72 Handwoven

- 746 73 Crocheted
For art crocheting in general see 746 43
- 74 Hookt Puld
- 8 Wax work Wax flowers
See also 731 253 Sculpture in wax
- .9 Other
- 747 Interior decoration
See also 643-645 Home plan and furnishings in Home economics
651 24 Office furnishings and decoration 729 Architectural design
and decoration 745 Ornamental design, 749 Artistic furniture
751 Painting
- 1 General questions
- 2 Interior decoration by country and period
Styles
Divided like 749 2 e g 747 211 American colonial interiors
- 3 Ceilings Walls
- 31 General questions
- 32 Decorativ painting
Distemper encaustic frescoes fretwork policrome etc
See also 751 73 Mural painting technic
- 33 Woodwork Paneling Mosaic work
See also 745 51 Artist c woodwork and mosaic in general
- 34 Friezes, moldings, etc
- 35 Wall coverings
Wall paper tapestry See also 745 54 Wall paper design
746 3 Tapestry hang ngs in general
- 4 Floors Floor coverings
See also 729 73 Mosaic floors
- 42 Rugs Carpets
As elements in interior decoration
- 5 Upholstery Draperies
Door and window furnishings curtains shades etc. See also
747 6 Furn ture in interior decoration 749 Artistic furniture
- .6 Furniture
In interior decoration only for art stic furniture design see
749 See also 747 5 Upholstery
- .7 Decoration of special rooms
May be divided like 645 6 Home furnishing e g 747 77 Bed
room decoration
- 8 Decoration of special buildings
Public buildings churches schools etc
- 85- 88 may be divided like 725-728
E g 747 86 Church decoration
- 9 Special decoration, etc.
- 92 Decorativ lighting Illumination
- 93 Decoration for special occasions
Decoration with flowers in a church for weddings funerals,
etc decorat on of a hall for a special event, etc.
- 94 Stencil decoration
See also 745 7 Transfer pictures

- 748 Glas Windows Mirrors Cristal
 Art of glaswork, glaziers art See also 666 1 Glasmaking, 698 5
 Glazing
- .1 General questions
- .2 Prest glas
- .3 Cutglas
- .4 Painted and iridescent glas Favrile glas
- .5 Stained glas in art Leded Mosaic
 See also 729 8 Use of stained glas in architecture
- .6 Etching on glas
 See also 767 2 Etching in general
- .8 Special articles of glas
- 749 Artistic furniture Fixtures Orna-
 ments
 See also 645 4 General furniture in Domestic economy, 684
 Furniture manufacture, 731.22 Wood sculpture, 736 4 Wood
 carving, 745 51 Arts and crafts in wood, 747 Interior decoration
- .1 General questions
- .2 Stiles by country and period
 Including reproductions and revivals For history and local
 treatment use 749 09 divided like 930-999
- .21 American United States
- .211 Colonial Early American ~1800
- .212 19th century
- .213 20th "
- .22 English
- .221 Early English ~1603
 English Gothic (see also 749.241 Gothic in general) and
 Renaissance (see also 749 25 Renaissance in general);
 Tudor, Elizabethan
- .222 Stuart 17th century 1603-1714
 Jacobean, Commonwealth, Caroline, Restoration,
 William and Mary, Queen Anne
- .223 Georgian 18th century 1714-1830
 Adam brothers, Chippendale, Heppelwhite, Sheraton,
 etc
- .224 Victorian 19th century 1830-1901
- .225 20th century
- .23 German Austrian
- .24 French
- .241 Early French ~1515
 Gothic (clas here general works on Gothic furniture,
 see also 749 221 English Gothic, etc.); Louis 12
- .242 French renaissance 1515-1610
 16th century, Francis 1, Henry 2-4. See also 749 25
 Renaissance in general
- .243 17th-18 centuries
 Louis 13-16, French baroque and rococo; Regency;
 Directoire

- 749.244 19th century
 Empire, Napoleonic
- .245 20th century
- .25 Italian
 Renaissance, clas here general works on renaissance furni-
 ture (see also 749.221 English renaissance, 749.242 French
 renaissance, etc.)
- .26 Spanish Portuguese
- .27 Slavic Russian
- .28 Scandinavian
- .29 Other
 Divided like 930-999, e g 749.2937 Roman, 749.29493
 Flemish
- .3 Special articles of furniture
- .31 Chairs Footstools
- .32 Couches Settees Sofas Lounges
- .33 Tables
- .34 Desks
- .35 Screens
- .36 Beds
- .37 Cushions, pillows, etc.
- .38 Coffers Chests Trunks
- .39 Other
- .4 Fixt or built-in furniture
 See also 729.9 Fixt furniture in Architecture
- .5 Special ornamental work
 Lacker work, marquetry, inlay, buhlwork, scrollsawing, fret
 work, etc See also 745.51 Artistic woodwork in general
- .6 Heating and lighting fixtures
 See also Heat, light, ventilation in Domestic economy 644, in
 Industrial plants 658.24-25, 697 Heating and ventilation in
 Building construction, 739 Metal arts
- .61 General questions
- .62 Heating fixtures
 Fireplaces, inglenooks, mantels, radiators, stoves, etc.
- .63 Lighting fixtures
 May be divided like 644.32, e g 749.636 Chandeliers. See
 also 738.83 Ceramic lighting fixtures, 729.98 Lighting
 fixtures in architecture
- .7 Ornaments
- .71 General questions
- .72 Picture frames and framing
- .73 Pictures
- .74 Clock cases
 See also 739.3 Artistic horology
- .75 Vases
 For vases in general see 738.38
- .76 Statuary
 See also 730 Sculpture

750 Painting

For form divisions see Table 2 after Relative index

751 General questions

Materials methods etc See also 729.4 Architectural painted decoration 741-744 Drawing See also in Relative index entries for special articles e.g. China painting

SUMMARY

751.2	Materials	5	Reproduction
3	Equipment	6	Preservation
.4	Technic	7	Object and form of paintings

.2 Materials

Including under each discussions of suitability and special problems of use

21 General questions

22 Surfaces Grounds

221 General questions

222 Wood Panels

223 Stone Concrete Plaster

224 Metals

May be divided like 669 e.g. 751.2241 Iron steel

225 Ivory, bone, horn, shell, etc

226 Ceramic materials Glas, etc

May be divided like 666.1-7 e.g. 751.2261 Glas

227 Textils Canvas Fabrics

May be divided like 677 e.g. 751.2274 Silk

228 Paper, etc

Papyrus parchment vellum cardboard

229 Other

23 Pigments Paints

For technic of use see under 751.4 Water color distemper oil etc. painting For charcoal crayons, pastels see 741.2 Drawing media etc. See also 667.6 Paint manufacture 752 Color and coloring

231 General questions

232 Water colors

Various forms and types cakes pastels tubes gouache and body colors etc

233 Distemper or tempera colors

234 Colord inks

India ink, sepia, etc

235 Oil colors

236 Encaustic or wax colors

238 Individual pigments

Source preparation chemistry durability, etc. See also 752.8 Individual colors

- 751.24 **Mediums Vehicles**
 .241 **General questions**
 .242 **For water colors and distemper**
 Honey, levulose, glycerin, glue, gums, dextrin, starch,
 flour, paste, curds, casein, eg (yolk, vitellin, white,
 albumin), etc.
 .243 **Waterglas**
 .244 **For fresco grounds**
 Lime water, banta water, etc
 .245 **For oil and wax colors**
 Oils animal, mineral, vegetable (linseed oil, nut oils,
 etc.), (see also 751.247 Oils as solvents and diluents),
 waxes beeswax, Chinese wax, paraffin wax, etc.; resins
 (see also 751.25 Varnishes)
 .247 **Solvents Diluents**
 Water. Oils turpentine oils, terpenes, oils of lavender,
 eucalyptus, lemon, orange, rosemary; petroleum,
 benzene, benzol, toluene, etc. (see also 751.245 Oils as
 mediums). Alcohols, ethers, chloroform, etc.
 .248 **Dryers**
 .25 **Fixatives Coatings**
 Varnishes amber, copal, damar, mastic, megilp, etc. (see
 also 751.245 Resins), lackers
 .3 **Equipment Furniture Tools**
 Including general discussions of use of each Easels, stools,
 tables, etc Palets, stretchers, slabs Color tubes, mixing
 dishes, wash trays, etc. Bags, portfolios, object holders,
 studio and field boxes, parasols and other painters' accessories
 .33 **Models**
 Dummies, lay figures, manikins, patterns, etc.
 .34 **Tools**
 Brushes, pencils, knives, erasers, mahl sticks or handrests,
 mullers, sponges, etc. Fingers as painting tools
 .4 **Tecnic Methods**
 For coloring tecnic see 752.4 See also 741.4 Drawing tecnic
 .41 **General questions**
 Designs for painting, etc. Preparing surfaces cleaning,
 priming, sizing Mixing and preparing pigments,
 mediums, vehicles. Painting operations preliminary
 sketching, outlining, etc., composition (backgrounds,
 chiaroscuro, etc.), corrections, etc. Coating, glazing,
 varnishing, etc.

- 752 Color Chromatography**
 Chromatics, theory of color See also 152 133 Color psychology, 535 6 Optics of color, 612 8433 Color physiology, 751 23 Pigments, paints, also special applications, e g 639 1325 Color in Advertising
- .1 General questions**
 Color analysis, properties, qualities, etc. Color constants, warm and cool colors, advancing and retreating colors Color values and intensities Primary and complementary colors, near-complements and triads, etc.
- .2 Color symbolism**
- .3 " scales and charts**
- .4 Color tecnic Manipulation**
 Color harmonies, mixtures, gradation, contrast. Form and color Color in light and shade Color in composition. For painting tecnic in general see 751.4
- .5 Composition of artists palets**
 Choice of colors
- .6 Monochrome painting**
- .8 Individual colors**
 See also 751 238 Individual pigments
- 753-758 Special subjects of painting**
 History, tecnic, etc. See also special applications, e g 712 35
 Use of painting in Landscape architecture
- 753 Mythic Epic Idealistic**
 Gods, heroes, etc. Allegoric, fabulous, legendary Symbolic, idealistic, mystic Decorativ, designs, patterns, etc. For general discussions of human figure painting see 757
- 754 Genre**
 Anecdotal subjects, every-day life
- 755 Religious Ecclesiastic**
 May be divided like 704 948, e g 755 3 Early Christian, Byzantine, 755 5 Paintings of Christ See also 246-247 Ecclesiology
- 756 Historical**
 Famous events, battle scenes, etc.

- 757 Human figure Portrait**
 See also 743 Art anatomy
- .1 General questions**
 Principles of portraiture
 - .2 Nude or draped**
 - .22 Nude .23 Draped**
 - .3 Men .4 Women .5 Children**
 - .6 Mixt portrait groups**
 - .7 Miniature painting**
 - .8 Special classes of portraits**
 May be divided like 920 e g 757 833 Portraits of statesmen
 - .9 Collections of portraits**
- 758 Other subjects of painting**
- .1 Landscape Scenery**
 - .2 Marine Seascape**
 - .3 Animals Hunting Sporting**
 For ded game see 758 45
 - .39 Special animals**
 392-399 may be divided like 592-599 e g 758 3982 Birds
 - .4 Stil life**
 - 41 General questions**
 - 42 Plants Trees Flowers**
 - 428 Special plants**
 2-9 may be divided like 582-589, e g 758 428337 Roses
 - .43 Fruit**
 - 44 Vegetables**
 - 45 Ded game**
 - 46 Inanimate objects**
 - .6 Industrial subjects**
 May be divided like 600 e g 758 622 Mining subjects
 - .7 Buildings Architectural subjects**
 May be divided like 720 e g 758 754 Factories
 - .8 Special objects in painting**
 May be divided like the whole classification, e g 758 855
 Geologic specimens
 - .9 Collections of paintings**
 Collections of special types may be clast here or with those types

- 759 Various schools or styles of painting**
 For general history of painting and local treatment use 750.9
 divided like 930-999
- .1 American**
 For Mexican use 759.972, Spanish or Latin American 759.98
 - .11 Canadian**
 May be divided like 971, e.g. 759.115 New Brunswick
 - .13 United States**
 May be divided by periods like 973, e.g. 759.132 Colonial
 - .14-.19 Local**
 Divided like 974-979 e.g. 759.14 New England
 - .2 English**
 May be divided like 942, e.g. 759.2081 Victorian painters,
 English prerafaelites, 759.247 Newlyn school
 - .3 German Austrian, etc.**
 May be divided like 943, e.g. 759.307 German prerafaelites or
 Nazaries, 759.332 Nuremberg school, 759.36 Austrian
 - .4 French**
 May be divided like 944, e.g. 759.437 Barbizon or Fontaine-
 bleau Barbizon school
 - .5 Italian**
 May be divided like 945, e.g. 759.505 Italian renaissance
 painters, 759.55 Sienese school
 - .6 Spanish Portuguese**
 May be divided like 946, e.g. 759.67 Valencian school, 759.69
 Portuguese
 - .7 Slavic Russian, etc.**
 May be divided like 947, e.g. 759.71 Finnish
 - .8 Scandinavian**
 May be divided like 948, e.g. 759.89 Danish
 - .9 Other schools**
 - .91 International schools**
 - .911 Classicism Orientalism**
 - .912 Naturalism**
 Romanticism, realism For prerafaelism see under
 759.2 English, 759.3 German or Nazaries
 - .913 Eclecticism Synthesisism**
 - .914 Impressionism**
 Luminism, pleinairism, divisionism, secessionism, in-
 dependents
 - .915 Postimpressionism**
 Fauvism, cubism, purism, futurism, vorticism; ex-
 pressionism, surrealism
 - .93-.99 National schools**
 Divided like 930-999, omitting schools provided for in
 759.1-8, e.g. 759.9492 Dutch, 759.9493 Flemish, Belgian

760 Engraving

For complete list of form divisions see Table 2 following Relative index, using 760 78 for instruments, apparatus equipment engravers tools, e g burin or graver, burnishers, needles, scrapers, etc., engravers presses; printing supplies, inks, papers, engravers furniture, accessories and supplies, e g acids, mordants, etc For engraving machines see 768 See also 655 Printing, publishing, 737 Coins and medals, 745-749 Industrial decoration and design, also special applications, e g 659 1323 Engravings in Advertizing

761 Relief engraving

See also 768 1 Machine relief engraving 777 2 Photorelief processes

- .1 General questions
- .2 Wood engraving Xylografy
 - Woodcuts See also 777 8 Photoxylografy
- .21 General questions
 - Design, composition, etc.
- .22 Wood blocks
 - Side or end grain, various kinds of wood, etc.
- .23 Preparing surface for design
 - Clearing polishing, ground laying, etc
- .24 Sketching design
 - Drawing, tracing, transferring
- .25 Line cutting
 - Black and white line, hatching, scrolls, geometric designs, etc
- .27 Chiaroscuro method
- .28 Inking Printing
- .281 General questions
- .232 In black and white
- .283 " color Chromoxylografy
 - Monochrome, polichrome, Japanese color prints

761 3-8 may be divided as needed like 761 2, e g 761 383 Linoleum block color printing

- .3 Linoleum engraving Lino-cuts
- .4 Rubber and rubberized materials
- .5 Lether
- .6 Celluloid
- .7 Artcraft composition
- .8 Metal relief engraving
 - For metal engraving in general see 762
- .9 Other materials
 - Shelf fungi, potato blocks, etc.

- 762 Intaglio engraving Metal engraving**
 For special methods see 765-768 See also 761 8 Metal relief engraving, 777 1 Photointaglio processes
- .1-.7 may be used like 669 1-7 according to metal employed, each may be further subdivided by 2 Bare metal, 3 Faced metal, further divided like 669 1-7 according to 'metal' facing used; e g 762 3 Copper engraving, chalcography, glufography, 762 331 Steel faced copper plates
 - .8 **Printing processes**
 - .81-.87 may be used like 669 1-7 according to metal employed, each being further subdivided like 761 28, e g 762 833 Chromocalcography
 - .88 **General methods**
 - May be divided like 761 28, e g 762 883 Color methods in metal engraving
 - .9 **Other topics**
- 763 Lithography Planography Metalography**
 See also 768 3 Machine metalography, 775 Photolithography, 776 Photometalography
- .1 **General questions**
 - .2 **Lithographic surfaces**
 - .21 **General questions**
 - .22 **Lithographic stones**
 - .23 **Aluminum Algraphy Aluminography**
 - .24 **Zinc Lithozincography Zincography**
 - .3 **Preparing surface for design**
 - Cleaning polishing ground laying, graining
 - .4 **Making design**
 - Greasy chalk or ink drawing stippling (for stipple engraving see 765 5), spatter work, spraying, transferring
 - .5 **Preparing surface for printing**
 - Applying acid, washing
 - .8 **Inking Printing**
 - For chromolithography see 764
- 764 Chromolithography**
 See also 775 8 Photocromolithography, 776 8 Photocromome talography
- 765 Line engraving Stipple engraving and other dot methods**
- .1 **General questions**
 - .2 **Line engraving**
 - .4 **Chalk or crayon engraving**
 - .5 **Stipple engraving**
 - Dot methods in general For lithographic stippling see 763 4
 - .6 **Cribbling Criblé engraving**

- 766 Mezzotint, aquatint and allied methods**
- .1 General questions**
 - .2 Mezzotint**
 - .3 Aquatint**
 - .4 Sulfur-tint**
 - .7 Mixt or composit processes**
Discussions of any 2 or more processes of engraving combined in 1 print
 - .8 Monotypes**
- 767 Etching Dry-point**
- .1 General questions**
 - .2 Etching**
Calgraphic, soft ground, etc etching See also special applications e g in Arts and crafts 748 6 Etching on glass
 - .3 Dry-point Draw-point**
 - .4 Gelatin dry-point**
- 768 Machine engraving**
- .1-.7** may be divided so far as needed like 761-767, e g 768 3 Machine lithography and metalography For eccentric engraving use 768 52
 - .8 Special machine engraving**
Engraving of banknotes, government notes, paper money, bonds, mortgages, stocks and other securities, postage stamps, etc.
 - .9 Other topics**
- 769 Collections of engravings**
- If collection covers less than half of following headings, class with 1st mentioned in tables unless some 1 subject predominates; if more than half class in general number unless 1 predominates or is library's specialty
- .1 Collecting**
Technic, methods of collecting, preservation, etc
 - .2 By engraver**
 - .3 " artist copied**
 - .4 " subject**
 - .41 Engravers and collectors marks, monograms, etc.**
 - .42-.49** divided like 704 942-949, e g 769 42 Portrait engravings
 - .5 By form**
Plates, diplomas, menus visiting cards, postcards and other illustrated cards, decorative prints, color prints, prints for children, posters, etc.
 - .6 By process**
Divided like 761-768, e g 769 612 Woodcuts. May be classed under number for process in 761-768 by adding 084 to process number, further subdividing if desired by subject like 704 94; e g 761 2084 Woodcuts, 761 20842 Portrait woodcuts
 - .9 By locality and period**
Divided like 930-999 For general history and local treatment use 760 9 divided like 930-999

770 **Photografy** **Heliografy**

Sun pictures sun prints See also 535 Optics 541.3 Physical chemistry (esp 541.3452 Colloid chemistry 541.35 Photochemistry) For full list of form divisions see Table 2 after Relative index For collections of photographs see 779 See also special applications e.g. 659.1323 Photographs in Advertising

1 **Theory**

Influences acting on photographic preparations (see also 771.534 Sensitivity 771.535 Latent image) Esthetics photography as an art Theories of physical influences on photographic preparations mechanical influences photographic optics (see also 535 Optics in Physics) Theories of chemical influences on photographic preparations (For Photographic chemistry see 771.5-7 For chemistry and reactions in any special process see number for that process See also 541.35 Photochemistry)

2 **Compends**

28 **General technic**

Elementary operations of photographic processes. For special technic of individual processes see numbers for those processes in 772-778 to any of which 028 and subdivisions may be added as desired

SUMMARY

- 770.281 Operations preceding exposure
- 282 " accompanying "
- 283 " immediately following exposure
- 284 Treatment of positives Working up
- 285 Preservation and use of negatives and transparencies
- 286 " " " " prints or positives
- .287 Recovery of materials wastes, residues, etc

281 **Operations preceding exposure**

Preliminary operations for camera exposure or direct printing

1 **General questions**

2 **Preparation of sensitiv emulsions, plates and films**

Preservation manipulation transporting storing marking etc Referring to actual manufacture only (for types of emulsions composition ingredients etc see 771.53-54) Preparation of ingredients including addition of preservatives etc. (for substrata see 771.528) Preparing plates and films for coating (see also 771.532 Sensitiv supports) Coating plates and films with sensitiv material Leveling setting drying reticulation Cutting plates and films Arranging packing etc. For apparatus used in these processes ad 078 see also 771.4 Apparatus and utensils For colloids supports and sensitiv materials in general see 771.5 For relation of these processes to sensitivity see 771.534

770 2813

Preparation of sensitiv papers

For preparation of emulsion see 770 2812 Prepar-
ing paper for coating including coating with non
sensitiv substratums e g barita (see also 771 528
Special substratums) Coating paper with sensitiv
material Setting drying cutting arranging
marking numbering packing storing transporting
See also 771 5323 Sensitiv papers in general

4 Preexposure dark room operations

See also 770 2832 Preparation of dark room for
developing 771 13 Dark rooms in general

5 Preparation and manipulation of apparatus and utensils

Cleaning etc See also 771 4 Apparatus and uten-
sils

7 Prevention of halation Plate backing

Compensator negatives etc For halation see
771 537 See also 771 528 Antihalation backings

8 Treatment of defectiv plates, films and papers

282 Operations accompanying exposure

For camera exposures or direct printing (For exposure
apparatus see 771 3) Choice and arrangement of sub-
ject composition, photographic perspectiv posing Prep-
aration and installation of apparatus preparing
cameras (loading preparing slides etc.) preparing
printing frames (see also 771 41-42 Printing appa-
ratus) installation of exposure accessories (see also
771 21 Furniture and accessories) Choice and prepar-
ation of illumination arrangement of lamps screens
etc (see also 771.22 Studio lighting 771 44 Light
sources) Estimation of light values quality intensity
etc determination of exposure (see also 771 37 Ex-
posure meters and calculators) Adjustment of ex-
posure apparatus and diaframs stopping-down (see
also 771 354 Diaframs in general) Making the ex-
posure focusing etc

283 Operations immediately following exposure

Treatment of negatives For apparatus see 771 43

1 General questions

2 Preparation of dark rooms

Including general discussions of dark room prepar-
ations See also 770 2814 Preexposure dark room
operations 771 13 Dark rooms in general, 771 23
Dark room furnishings 771.24 Dark room lighting

3 Preparation of utensils

4 " " baths

For composition and ingredients see 771 54

5 Development

Chemic, physical, etc. development See also
771 5343 Desensitization, 771 5345 Laws of develop-
ment, solarization reversal, etc. 771 535 Latent
image

DECIMAL CLASSIFICATION

770 2836	Toning	See also 773 53 Dye toning
7	Changing density	Harmonizing harsh contrasts Intensifying, re-development, reducing, rehalogenizing, bleaching, clearing, etc
8	Finishing negatives	Hardening, fixing, hypo elimination, washing, drying, retouching, etc
9	Other	
284	Treatment of positives	Working up
		For apparatus see 771 45
1	General questions	
2	Printing	
3	Finishing	Retouching positives, blocking or stopping out, spotting Tinting, coloring, air brush work, hellenotype, hallo type, etc processes Varnishing, varnish removal, etc
4	Mounting	Derepas, ivontype, etc processes For framing see 770 2864
5	Trimming	
6	Surfacing	Glazing, burnishing, hot pressing, rolling, matting, graining, enameling, etc
7	Embossing	Basrelief prints etc
8	Transferring images to special supports	To glas, porcelain, etc
9	Other	Edging, safe edge, etc
285	Preservation and use of negatives and transparencies	
1	General questions	
2	Deterioration Defects	Negativ and positiv troubles causes, remedies, restoring, repairing Aging, drying marks, crape, cristal, etc markings, stains, fogging (see also 771 5345 Fog), pinholes, dust spots, crackt and broken negatives, etc.
3	Stripping and reversing negatives	Film stripping, Eburneum process, etc (see also 771 527 Stripping films, 778 13 Enlarging by stripping) Phototecie, etc
4	Preservation Storing Duplication	See also 771 46 Storage apparatus, 778 12 Reproduction by camera
5	Classification of negativ collections	Titling lettering, numbering
6	Packing Transporting	

- 770 286 Preservation and use of prints or positifs
Divided like 770 285 4 includes passe partout and framing (for mounting see 770 2844), 6 includes print exhibition and arrangement (see also 771 46 Display and exhibition furniture)
- .287 Recovery of materials
Recovery of wastes, residues, etc Restoration of sensitiv materials regeneration of baths, etc
- .6 Societies Interested persons
- 69 Persons in relation to photography
Professional, amateur, etc. photography. General discussions only Discussions of special operations and types of photography ar preferably clast under numbers for those operations and types

771 Photographic materials Photographic chemistry

Premises, apparatus, substances

SUMMARY

- | | | | | |
|-------|---|--|----|---|
| 771.1 | Buildings | Premises | .5 | Photographic chemistry |
| .2 | Furniture and fittings | | .6 | Inorganic chemicals |
| | for photographic establishments | | .7 | Organic " |
| | | | .8 | Apparatus for obtaining prints by mechanical impression |
| .3 | Cameras and their accessories | | | |
| .4 | Apparatus common to negatives and prints | | .9 | Other photographic materials |
| | | | | |
| .1 | Buildings | Premises | | |
| | | Special installations and interior arrangement | | For architecture see 727 77 Galleries, 727 797 Studios |
| .11 | Buildings devoted to photography in general | | | |
| | | Society houses, meeting places, assembly halls, reception rooms | | |
| .12 | Photograf studios | | | |
| | | Exposure and enlarging rooms; design and arrangement | | |
| .125 | Cinematograf studios | | | |
| | | See also 778 5 Cinematography | | |
| .13 | Dark rooms | Developing laboratories | | |
| | | See also 770 2814 Preexposure dark room operations, 770 2832 Postexposure dark room preparations | | |
| .14 | Printing rooms | | | |
| .15 | Research and testing rooms | | | |
| .16 | Factories | Workshops | | |
| .17 | Schools | Teaching establishments | | |
| | | For study and teaching use 770 7 | | |
| .18 | Supply houses | | | |
| | | Commercial premises, business and sales establishments | | |
| .19 | Other | | | |

- 771.2 Furniture and fittings for photographic establishments**
- .21 General studio furniture**
Exposure accessories, decorations, etc. Posing chairs, hedrests, backgrounds, etc. See also 770.282 Installation of exposure accessories
 - .22 General lighting of studios**
Windows arrangement, glazing, blocking up, etc.; light fixtures arrangement, etc., blinds, curtains, screens, diffusers, reflectors. For dark room lighting see 771.24. See also 770.282 Choice and preparation of illumination for exposure. 771.295 Lighting of cinematograph stages, 771.44 Light sources
 - .23 Dark room or developing laboratory furnishings**
Tables, work benches, shelves, cupboards, water supply, plumbing, developing and washing sinks, seats, etc. See also 770.2832 Postexposure dark room preparations, 771.43 Developing apparatus
 - .24 General lighting of dark rooms**
Special dark room lamps, lanterns and filters, safe lights, window glazing (see also 771.356 Color filters for cameras, 771.41 Colord glas for printing), dark room shades and fabrics. For general studio lighting see 771.22. See also 770.2832 Postexposure dark room preparations, 771.44 Light sources
 - .25 Portable laboratories and studios**
Photographic tents, wagons, etc., portable developing furniture
 - .26 Furnishings of printing and reproduction rooms**
 - .27 " " enlarging and projection rooms**
 - .28 " " photomechanical printing rooms**
 - .29 Other**
 - .295 Furnishings of cinematograph laboratories**
Stage fittings and arrangements, lighting (see also 771.22 General studio lighting. 771.44 Light sources), scenery, accessories etc. See also 778.5 Cinematography
 - .3 Cameras and their accessories**
Apparatus for taking photographs direct. For exposure operations see 770.282. See also 535.8 Optical instruments in Physics, 681.4 Manufacture of optical instruments, also numbers for special applications in 778

SUMMARY

771.31	Cameras	.35	Optical parts
32	Material holders	.36	Photographic shutters
	Adapters		
	Backs	37	Focusing and exposure apparatus
33	Daylight loading and changing boxes		
	Film	.38	Camera accessories
	and roll holders	.39	Other camera apparatus
.34	Stands and supports		

- 771.31 **Cameras**
 Camera obscura
- .311 **General questions**
- .312 **Studio and field cameras**
 Portable stand cameras, 'hand or stand', universal cameras
- .313 **Hand cameras**
 Fixed focus cameras; cameras automatically taking a series of photographs, cameras using cinematograph film for single exposures, etc.
- 1 **General questions**
- 2 **Plate cameras**
 Box cameras, magazine cameras (also called detective cameras, see also 771.3136 Disguised cameras); reflex or reflector cameras (see also 771.3133 Roll film reflex cameras), focal plane or candid cameras, etc
- 3 **Roll film cameras Film cameras**
 Kodaks, filmographs Roll film reflex cameras (see also 771.3132 Reflex cameras in general), etc. Double exposure prevention devices (see also 771.36 Shutters, 771.37 Exposure indicators); film winding devices, (see also 771.33 Film spools and roll holders); etc.
- 4 **Film pack cameras**
- 6 **Disguised cameras Detective cameras**
 Cameras for detective and other secret work, secret cameras Book, buttonhole, hat, opera glass, vest, watch ('Tickle'), etc. cameras See also 771.3132 Magazine cameras, 771.314 Cameras closing like a book
- .314 **Folding and extensible cameras**
 Bellows cameras and bellows Extensions and extension frames, extension cameras Flap or shutter folding cameras, sliding body cameras, cameras closing like a book (see also 771.3136 Book cameras), etc.
- 8 **Pocket cameras**
 Class here general discussions of miniature cameras
- .315 **Binocular or twin lens cameras**
 Photogrammetres See also 778.42 Stereoscopic cameras
- .316 **Panoramic and cycloramic cameras**
 Cyclographs for photographing all sides of cylindrical objects on 1 surface, orobehographs, pantascopic camera, plane-table, etc Cyclographs for photographing panoramas, orkut cameras, cylindrographs, panoram cameras, etc See also 778.35 Aerial cameras, 778.36 Panoramic photography

- 771.317 Process cameras Photoengraving cameras
Cameras, copiboards and other accessories for photo-
mechanical reproduction For photomechanical processes
see 774-777
- .318 Copying and enlarging cameras and lanterns
Photostat and similar cameras, projection printers;
easels, copiholders, material holders, etc. For light
sources, condensers, etc. see 771.44. See also 778.1
Industrial reproduction, enlarging, 778.2 Projection
- .319 Other types of cameras
- 1 Multiplying apparatus
Cameras for producing several exposures on 1 ex-
posure area Multiple, postage stamp, etc. cameras.
See also 771.32 Repeating backs, 771.352 Lens de-
vices for securing multiple images, 778.8 Polipose
photography
- 2 Lensless cameras
Pinhole cameras, stenopaia or fish-eye photography;
mirror, prism, etc. cameras
- 3 Automatic cameras
In which developing and fixing are performed
- .32 Material holders Adapters Backs
Dark slides, plate holders, plate carriers and adapters; re-
peating or multiplying backs or multipliers (see also
771.3191 Multiplying apparatus in general, 771.352 Lens
devices for securing multiple images), swing and sliding
backs, side swings (see also 771.353 Swing fronts, 771.37
Focusing devices), etc., combined material holders and
development tanks For film pack adapters see 771.33
- .33 Daylight loading and changing boxes Film
and roll holders
Plate magazines, magazine slides, plate sheaths. Film
spools, daylight cartridges, roller slides (see also 771.3133
Film winding devices in general) Film packs, film pack
adapters (see also 771.32 Adapters in general). Envelope
film and plate changers; etc.
- .34 Camera stands and supports Tripods
Studio and field stands, stands for cinematographic appa-
ratus, for copying, enlarging and photomechanical ap-
paratus; etc. Accessories fastenings and screws, camera
baseboards, turntables, adjustment apparatus, etc.

771.35

Optical parts of cameras

See also 535.85 Photographic optics in Physics

.351

General questions

.352

Objectives Lenses

Characteristics, dimensions, etc. Depth of focus, definition or field; resolving power, angle of view, etc (For scientific principles of lenses, elementary forms, etc see 535.81) Various types of lenses: simple, anastigmat, telefoto, etc; wide angle lenses (see also 778.36 Wide angle photography); telefoto backs and combinations (see also 778.32 Telefotography); portrait attachments; devices for securing multiple or distorted images (see also 771.3191 Multiplying cameras, 771.32 Repeating and multiplying backs, 778.8 Trick photography); diffused image apparatus, optical lens attachments, planiscopes, magnifiers, etc (see also 771.37 Focusing magnifiers) See also numbers for special types of photography

.353

Fronts Mounts

Lens boards or panels, camera fronts. Rizing and falling, swing etc fronts (see also 771.32 Swing backs) Lens adapters, braswork, flanges, screws and other accessories for lens mounts. See also 771.37 Focusing devices

.354

Diaframs Stops Apertures

Focal or working aperture, marking or numbering systems (F numbers, etc), influence of rapidity, functions and position of diaframs, diafram mountings, etc. See also 770.282 Adjustment of diaframs

.355

Compensating glasses

E.g. Miethe's compensator

.356

Color filters or screens Light filters

Including filter holders. See also 771.24 Dark room filters, 771.41 Colored glass for printing, 771.5342 Filter factors, 778.6 Photography of colors

.357

Mirrors and prisms for reversing images and negatives

.358

Lens hoods and shades Sky shades

.359

Other

.36

Photographic shutters Instantaneous shutters

Obturator. Construction, tests, use, performance, etc. Time exposure apparatus, lens caps, time valves, etc. Shutter operators, releases, self timers, etc. See also 771.3133 Automatic film changing apparatus and double exposure prevention devices, 778.37 Instantaneous photography

771.37

Focusing and exposure apparatus

View finders and meters, identoscopes, etc.; iconometers, focimeters, distance meters, etc. Camera levels, plum indicators. Exposure indicators and counters (see also 771.3133 Double exposure prevention devices for film cameras). Photographers compasses. Exposure meters, reckoners or calculators and tables, actinometers, etc. (see also 770.282 Estimation of light values, 771.41 Print meters and actinometers, 771.5345 Photometry in general). Focusing devices, magnifiers, racks and mounts, adjusters, etc. (see also 771.32 Swing backs, 771.352 Supplementary lenses and magnifiers, 771.353 Camera fronts). Focusing screens, light deflectors, scales, etc. Vignettters for cameras (see also 771.41 Print vignettters)

.38

Camera accessories

Focusing cloths, curtains and other flexible focusing attachments. Camera and apparatus cases and carriers, bags, lens cases, etc., trunks for transporting photographic apparatus, etc.

.39

Other camera apparatus

-4

Apparatus common to negatives and prints

See also 770.2815 Preparation and manipulation of apparatus

SUMMARY

771.41	Glas and paper cutting apparatus	.44	Light sources
	Print making accessories	.45	Retouching and finishing apparatus
.42	Printing frames and machines	.46	Preservation, examination and transportation apparatus
.43	Apparatus for developing, fixing, washing and drying	.47	Laboratory utensils

.41

Glas and paper cutting apparatus Print making accessories

Mesuring apparatus, cutting shapes, forms or molds. Cutting and trimming utensils and machines, guillotines, etc. (for mounting apparatus see 771.46). Gages and print mesurers. Frosted and colored glas for printing (see also 771.24 Safe lights, 771.356 Color filters). Print vignettters, printing masks, cloud and border negatives (see also 771.37 Vignettters for cameras). Print meters and actinometers for determining printing times (see also 771.37 Exposure meters and actinometers). Print and negativ timers, dark room clocks. Print indicators, etc.

.42

Printing frames and machines

Various types of frames and printers. châssis à ventouses (ventiduct frames), cinematograf printing machines fantasmografts, inscription or titling, numbering and lettering printers, etc. See also 770.282 Preparing printing frames for exposure

771 43

Apparatus for developing, fixing, washing and drying

Baths trays troughs etc. Drying apparatus Apparatus for handling plates films and prints Special apparatus for developing and etching printing plates graining apparatus resin boxes heaters and heating slabs instruments for finishing and retouching printing plates (see also 771 45 Retouching apparatus in general) materials for duplicating by electrotipe etc. For operations see 770 283 See also 771 23 Developing room furnishings developing and washing sinks 771 47 Laboratory utensils thermometers etc

44

Light sources for photographic operations

See also 770 282 Choice and preparation of illumination for exposure, 771 22 General lighting of studios 771 24 General lighting of dark rooms 771 295 Lighting of cinematograph stages 771 5345 Standard light sources for sensitometry

441

General questions

442

Sunlight photography

Natural light photography in general. Natural daylight reflected or condensed sunlight etc. Condensers, heliostats (see also 778.22 Optical lantern condensers) For moonlight starlight etc. see 771 4491 Night photography

443

Artificial light photography

1

General questions

2

Lighting by combustible solids or liquids

3

Candle light

4

Oil lights

5

Spirit lamps Alcohol lamps

See also 771 446 Spirit vapor lamps

-444

Natural or ordinary gaslights

Gas jets incandescent burners Auer or Welsbach jets etc

-445

Lighting by compressed and mixed gases

Lime light calcium light oxycalcium oxyhydrogen or Drummond light etc. Acetylene light. Compressed gas reservoirs and generators gas cylinders carbide tanks etc. Lime cylinders limes

-446

Lighting by mixture of vapors and gases

Vaporized gases spirit vapor lights sol lamps incandescent spirit lamps (see also 771.4435 Spirit lamps) oxyether lights, etc.

771.447

Electric lighting

Arc, incandescent, etc. lights Regulators, etc
5-7 may be divided like 621 325- 327, e g 771.44756
Flaming arcs

.448

Lighting by magnesium and flash powders

Flashlight photography Flash lamps and materials,
touch papers pyrotechnic lights, luxograf, etc.

449

Other light sources

Lightning, etc

I

Night photography

Moonlight starlight, street lights, etc.

.45

Retouching and finishing apparatus

Retouching desks, frames, mediums, varnishes, powders,
etc Coloring apparatus, easels, palets, pigments, etc
Drying apparatus, presses, squeegeers, blotters, etc Sur-
facing apparatus, glazing plates (ferrotypes, etc), burnish-
ers, pulp slabs, polishing, lubricating cleaning, etc.
materials, encaustic or cerate paste, etc Embossing and
enameling apparatus Brushes pencils, aerograf or air
brush, âtzpinsel, crayons swabs etc For processes see
770 284 See also 771 43 Instruments for finishing and
retouching printing plates

.46

Preservation, examination and transportation apparatus

Filing and storage boxes and cabinets, envelopes, classi-
fiers, albums, portfolios Mounting materials and ap-
paratus, mountants, paste, mucilage, etc, passe partout
materials, etc (see also 771 41 Trimming apparatus)
Frames and framing apparatus Display and exhibition
furniture (see also 770 2866 (Print exhibition) Viewing
apparatus monoculars, alethoscopes, diafanoscopes, lantern
scopes, verants, etc, binocular apparatus, grafoscopes
(see also 778 44 Stereoscopic viewing apparatus), cosmo-
ramas, etc (see also 778 2 Photographic projection) Pack-
ing apparatus transit boxes, etc. See also 770 2854 Pres-
ervation processes

.47

Laboratory utensils

Bottles, stoppers glasses, graduates, burets, droppers test
glasses, hydrometers, funnels filters and filtering mediums,
scales, thermometers stirring rods, tubing, labels, etc
See also 771 43 Apparatus for developing, fixing, washing
and drying, including temperature control development
dishes

- 771.5 Photographic chemistry**
 Substances and raw materials used in photography and in sensitive preparations Chemicals etc. Use and preparation from photographic viewpoint For properties and manufacture of these products from chemical and general viewpoints see 540 Chemistry and 660 Chemical technology

SUMMARY

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| 52 | Support materials | | |
| 53 | Sensitive preparations | 58 | Nonsensitive emulsion and coating materials |
| 54 | Composition and ingredients of photographic baths and mixtures | | |
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| 51 | General questions |
| 52 | Support materials |
| | Characteristics and suitability of various raw materials for use as photographic supports or surfaces For sensitized supports see 771.532 |
| 521 | General questions |
| 522 | Paper |
| | Various kinds for films transfer papers etc. |
| 523 | Films of cellulose compounds |
| | Celluloid films composition solvents etc Nitrate acetate viscose, etc films |
| 524 | Metal supports |
| | Steel precious metals copper etc. in form of plates or films etc |
| 525 | Special temporary supports |
| | Flexible opal glass etc |
| 526 | Ceramic materials |
| | Glass porcelain, etc May be divided like 666 e.g. 771.5261 Glass |
| 527 | Stripping films |
| | Films for stripping See also 770.2853 Film stripping |
| 528 | Special substrates and coatings |
| | Backings Noncurling film coatings gelatin base anti curling celloid Sandell etc. films Barita and barite paper (see also 770.2813 Coating with barite) Anti abrasion reinforcing metallic etc. coatings metalotypes Antihalation backings (see also 770.2817 Plate backing) Sizing materials etc. See also 770.2812 Applying special nonsensitive substrates including preservatives to plates and films 770.2813 to papers |
| 529 | Other topics |
| | Stone wood textiles etc as support materials |
| | Cleaning and renovating old supports |

- 771.53 **Sensitiv preparations**
 - Properties of sensitiv materials For manufacture of sensitiv emulsions see 770 2812, for photographic processes see 772-778
- .531 **General questions**
- .532 **Sensitized supports**
 - See also 770 2812 Preparing plates and films for coating, 771 52 Support materials
- 1 **General questions**
- 2 **Sensitized plates Dry plates**
 - Various types ferrotype plates, adamantean, diapositiv, pinatype, etc plates
- 3 **Sensitized papers**
 - Development, bromid, etc papers, transferotypes. Print- and bleach-out papers, aristotype, collodion, etc. papers Pinatype, ozobrome, etc papers, papier velours, etc. See also 770 2813 Preparation of sensitiv papers
- 4 **Sensitized films**
 - Film pack, roll, cinematograf, etc. films
- 5 **Sensitized surfaces clast by speed and use**
 - Ultrafast, for focal plane shutter cameras and dul light portraits, fast, for portraits, outdoor groups and slowly moving objects, etc. For emulsions according to speed see 771 543
- 533 **Physical characteristics of sensitiv emulsions**
 - Size of grain, turbidity, etc.
- .534 **Sensitivity**
 - Degrees of sensitivity, methods of denoting sensitivity, etc See also 770 1 General photographic theory, 771 535 Latent image
- 1 **General questions**
 - Factors affecting sensitivity heat, humidity, constituents of emulsions, etc Physical production of increast sensitivity, special chemic sensitizers, sensitization by auxiliary exposure, etc For preparation of emulsions, ripening, special additions to emulsions, etc see 770 2812
- 2 **Color sensitivity**
 - Wave length, optical and spectral sensitivity and sensitizing Sensitizing dyes and other color sensitizing substances, dye sensitizing baths, optical or selectiv sensitizers (see also 770 2812 Special additions to emulsions, 771 549 Dyes in general) Hypersensitizing to color Filter factors and coefficients (see also 771.356 Color filters for cameras) Antiscreen and nonfilter plate dyes, etc See also 778 61 Orthocromatism, pancromatism, etc.

771.5343

Desensitization

Reduced sensitivity, desensitizing dyes, oxidizers, etc See also 770.2835 Development

5

Sensitometry Photometry

Measurement of sensitivity, testing plates, films and other sensitiv surfaces Systems of sensitometry Hurter & Driffield ($H^1 \& D$), Scheiner, etc Sensitometers intensity scale, measurement of latitude, photometric prisms, step wedges, etc.; time scale, exposure instruments, speed and inertia measurement, sensitometric sector wheels, tablets, etc, actinism (for general discussions of light sources see 771.44), spectrofotometers, etc. Characteristic and density curvs, law of blackening, exposure curvs, laws of development, velocity constant (see also 770.2835 Development processes), density and opacity meters and balances, measurement of transparency, microfotometers etc Tone reproduction, contrast, graduation, variation with wave length, Purkinje effect Properties of final photographic image, photometric constant or equivalent, color of developd image, resolution, graininess, covering power, turbidity, development effects, marginal and background effects, etc Reciprocity law, Schwarzschild law or effect, time and intensity, intermittency effect or error Solarization, reversal (see also 770.2835 Development for direct positives) Effects of special radiations Herschel effect (inversion by red light), Becquerel, Villard, etc effects Fog chemic, color, etc. fog (see also 770.2852 Fogging of negatives and transparencies, 770.2862 of prints) Effects of various emanations and vapors atmography, vaporography; sometimes also cald effluviography (see also 778.34 Effluviographs) See also 535.2 Photometric optics, 771.37 Exposure meters

.535

Latent, embryonic or invisible image

Destruction of latent image, regression, fading For development see 770.2835 See also 770.1 General photographic theory, 771.534 Sensitivity

.536

Distortion

Curvilinear or marginal, perspectiv, etc distortion

.537

Halation

See also 770.2817 Prevention of halation

.538

Print-out effect

Direct or visible image

.539

Other

- 771.54 Composition and ingredients of photographic baths and mixtures
 Instructions for preparation and use For general discussions on preparation of development baths use 770.2834
- .541 General questions
 Corrosion by photographic solutions, etc
- .542 Film base solutions and chemicals Dopes
 Acids; cellulose compounds, nitrate, acetate, viscose, etc dopes pyroxilin, collodion cotton or wool, soluble guncotton, celloidin, fatty esters, etc.; solvents; fillers, sizings, stabilizers, etc.
- .543 Emulsions
 See also 771.58 Nonsensitiv emulsion and coating materials
- .544 Developing solutions and chemicals
 Developers, reducing agents indoxil, adurol, amidol, edinol, etc. Accelerators, alkalis, quick stuff. Restrainers Developer solvents and preservatives
- .545 Toning solutions and chemicals
 Various types, metallic, nonmetallic, etc; toning dyes (see also 773.53 Dye toning), toning baths for special purposes, etc
- .546 Density changing solutions and chemicals
 Intensifiers, redevelopers, reducers, oxidizers, rebalogenizers, bleachers (calcium hypochlorite or chloride of lime, Labarraque solution, alabaster solutions, etc), clearing baths, stain removers, etc
- .547 Hardening and fixing solutions and chemicals
 'Hypo', fixing hardening baths, hypo eliminators, etc
- .548 Bicromate solutions and compounds
 Ozotype solutions, Bennett carbon sensitizer, ozobrome, carbo, bromoil solutions, etc
- 549 Other photographic solutions and compounds
 Dyes, dye solutions, pinatype dyes, etc (see also 771.5342 Sensitizing dyes) Stripping solutions and chemicals, cresco-fylma, etc
- .55 Special substances used for printing
 Inks, mordants, etching solutions, resins, resists. See also 771.8 Apparatus for obtaining prints by mechanical impression
- .58 Nonsensitiv emulsion and coating materials
 Intermediate substances, colloids and other nonsensitiv mediums for holding the sensitiv materials. Albumin, casein, collodion, curds, fish glue, gelatin, gums, meta gelatin, etc. For sensitiv emulsions see 771.543. See also 771.6-.7 Reagents

- 771.6 Inorganic chemicals used in photography
Elementary inorganic substances and reagents May be divided like 546, e.g. 771 613 Chlorin
- .7 Organic chemicals used in photography
Elementary organic substances and reagents May be divided like 547, e.g. 771 73 Alcohols
- .8 Apparatus for obtaining prints by mechanical impression
Rollers, molds, gelatin reliefs, plaster casts, cylindric molds, etc. Grinding knives, inking tables Presses See also 771 55 Special substances used in printing
- .9 Other photographic materials

772-778 Photographic processes

For sensitiv preparations, plates films, etc see 771 53

772 Photographic processes based on use of metals

See also 773 Carbon processes, dusting processes, etc.

SUMMARY

772.1	Silver, copper, mercury	6	Tin, titanium, zirconium,
.2	Iron, manganese, cobalt, nickel	.7	thorium, actinium
.3	Platinum, palladium, gold, osmium, iridium, rhodium, ruthenium	.8	Vanadium, antimony, bismuth, tantalum, niobium (columbium), polonium
.4	Chromium, molybdenum, uranium, tungsten (wolfram)		Berillium (glucinum), magnesium, zinc, cadmium, rare earths (cerium, aluminum, etc.)
.5	Led, thallium	9	Other metallic salts

.I Silver group processes Silver prints

See also 772 32 Platinum silver processes

.II General questions

.12 Silver processes according to support material

Processes using silver salts on paper metals, etc. Calotypes, talbotypes, gallo-nitrate of silver process, photogenic drawing, kerotypes, diaphotypes, Cooper, serum, etc. processes Daguerreotypes (see also 772 14 Positiv wet collodion processes), bitumen niepceotypes, Niepce heliographic process, etc.

.13 Processes using silver salts with noncollodion coating sensitized by bathing

Silver processes using coatings of albumin, gelatin, starch, arrowroot, cellulose, varnish or lacker, resin, gum, silica, soluble glas, etc. Processes with albumin or gelatin, energiatypes (formerly cald ferrotypes, see also 772 14 Tintypes), gelatin and sugar processes, etc. on collodion (for collodion processes in general see 772 14) Poitevin processes, albumin niepceotypes, chrysototypes, etc.

772.14

Collodion processes Collodiotypes

Wet-plate processes Archerotypes, archotypes, direct positivs (see also 772.12 Daguerreotypes), ambrotypes, alabaster or alabastrin process, ferrographs ferrotypes, melanotypes melanotypes, or tintypes (see also 772.13 Energias tintypes 772.22 Positiv cyanotypes), honey process, dry ferrotype, Nievsky, etc. processes, Fothergill, gum gallic, Norris, resin dry, Russell tannin or gallic acid, Wortley, etc. processes, Taupenot process, morfia, zanthocollodion, etc. processes. Collodion transfers (pannotypes, etc.) See also 772.13 Silver processes using albumin or gelatin on collodion, 772.15 Collodio-silver chlorid processes, 772.46 Uranium collodion processes

.15

Emulsion processes using silver salts

Dry plate processes. Silver collodio-bromid processes, silver gelatino-bromid processes, pellicle (e.g. Kennett) processes, etc., iodo-bromo gelatin processes, e.g. whey process, chloro-bromid gelatin processes, chloro-iodo-bromid gelatin processes, collodio-gelatin processes, etc. Collodio-silver chlorid processes, e.g. Chardon, etc. processes, Simpsontypes, etc. (see also 772.14 Collodion processes in general) Silver gelatino-chlorid processes printing-out silver processes in general (aristotypes, etc.) Silver iodid gelatin processes. Unwasht development emulsion processes etc.

.16

Processes using silver salts mixt with reducing salts

Processes using salts of silver and iron: catalisotype, kallitipe (brown line processes, cerno printing, etc.), sepi printing, breth printing, fluorotype, etc. processes. Processes with salts of silver and mercury, mercury silver printing (see also 772.18 Mercury processes), etc.

.17

Processes using copper salts

Obernetter copper printing process, ferrocupric, etc. processes

18

Processes using mercury salts

Mercury printing See also 772.16 Mercury-silver printing

.19

Other silver group processes

Catatipes, phosphate printing, etc. See also note under 772.1

.2

Iron group processes

Printing with ferric salts, heliografic processes, printing from tracings. See also 773 Iron dusting, pigment, etc. processes

.21

General questions

.22

Ferroprussiate processes

Blueprint or cyanotype processes. Cyanofer, cyanografic, gum ferric, etc. processes (also cald positiv ferrotypes, see also 772.14 Tintypes) See also 744.532 Blueprint reproduction of drawings, 772.52 Chromocyanotypes

- 772.23 Ferrogallie or iron gallate processes
 Black line processes Fisch Colas, Nakahara, etc processes
- 24 Other processes using iron salts
 Chrsotype or chripotype, Herschel amfitipe, Zollner iodid of starch etc processes
- .25 Processes using manganese salts
 Manganic lactate printing, etc
- .27 Processes using cobalt salts
 Lumière process etc
- 28 Processes using nickel salts
- .3 Platinum and ruthenium group processes
 Processes using salts of precious metals
- .31 Platinum processes
- 311 General questions on platino-ruthenium group processes
- .312 Platinum printing-out processes
 Platinum processes by direct blackening
- .32 Platinum development processes
 Platinotype processes Cold and hot bath processes (septa platinotypes or septatypes), platinum silver processes (for silver processes in general see 772 1)
- 33 Palladium processes Palladiotypes
- .34 Gold " Aurotypes
- 35 Osmium " .37 Rhodium processes
- 36 Iridium " 38 Ruthenium "
- .39 Other platino-ruthenium group processes
- .4 Chromium group processes
 For processes depending on insolubilizing dicromated colloids and those requiring staining see 773
- .41 General questions
- 42 Chromium processes
 With copper, iron, etc. salts (chromocyanotypes, see also 772 22 Cyanotype processes in general) See also 773 12 Chromium pigment processes
- .43 Molybdenum processes
- .45 Uranum " Uranotypes
 Uranum nepeotypes, mercurio-, platino-, etc. uranotypes Bartlett process for gaslight printing, etc.
- .46 Uranum collodion processes
 Processes using uranium and collodion silver salts
 Wothly process wothlitipes. See also 772 14 Collodion processes in general
- .47 Tungsten or wolfram processes

772.5	Led group processes	
52	Led processes	53 Thallium processes
.6	Tin group processes	
61	General questions	64 Zirconium processes
62	Tin processes	65 Thorium "
63	Titanium "	66 Actinium '
.7	Vanadium group processes	
71	General questions	75 Tantalum processes
72	Vanadium processes	76 Niobium or colum bium processes
73	Antimony "	
74	Bismuth "	77 Polonium processes
.8	Magnesium and cerium group processes	
81	General questions	
82	Berillium or glucinum processes	
83	Magnesium processes	
84	Zinc "	
85	Cadmium "	
86	Processes using salts of rare earths	Cerium group processes
87	Cerium processes	
88	Aluminum "	
89	Other rare earth processes	
	May be divided like 546.6 (except for cerium and aluminum) e.g. 772.897 Indium processes	
.9	Processes using other metallic salts	
	772.93-94 may be divided like 546.32-432 e.g. 772.9432 Processes using radium salts	

773 Processes using colored mixtures and powders Imbibition and dye processes

Bicromate processes

Bicromated and pigmented gelatin processes See also 772
 Photographic processes based on use of metals 778.5342 Color
 cinematography 778.5542 Cinematographic color projection 778.6
 Color photography in general

SUMMARY

773.1	Pigment and carbon processes	5	Dye and anilin processes
		6	Photoceramics Photoenamels
2	Powder or dusting-on processes	7	Processes using dye-forming organic compounds and sensitive dyes
3	Imbibition processes		
.4	Processes using organic compounds	8	Oil pigment processes
		.9	Other

- 773.1** **Pigment processes** **Carbon processes**
- .11** General questions
- .12** Mixtures sensitized by chromium salts
 See also 772.42 Chromium printing processes in general
- 121** General questions
- .122** Without transfer
 Mixture of "colloid and pigment, gum bicromate or 'bi gum' printing processes (photomezzotint, photo-aquatint, artigue, etc. processes, carbographs, multicolor or multiple gum printing, etc.) Colloid layer coated with pigment (bicromated gelatin-sugar printing processes, etc.) Ink bicromate, gallate of iron, Leming, etc. processes (see also 773.15 Ink printing). Chromotypes, cuprotypes, etc.
- 123** Carbon transfer or autotype processes
 Carbon transparencies, etc.
- .124** Pressure processes
 See also 777.5 Woodbuntypes
- .125** Chemic transfer processes
 Marion gum processes, mariotypes, ozotypes, ozobrome (see also 773.8 Oil ozobrome processes), carbros, etc. processes
- .127** Polichrome carbon (3-color, etc. carbon) processes
- .15** Mixtures sensitized by iron salts
 Ink printing (Sella printing process, etc. See also 773.122 Ink bicromate processes) Gum printing on bromids.
 See also 772.21-24 Iron printing processes in general
- .2** Powder or dusting-on processes
 With chromium led, iron, etc. salts, with asphalt mixtures, etc. Resinopigmentypes, anthrakotypes, Askau pigment printing process, plumbago process peppertypes, etc. See also in 772 Chromium, led iron, etc. processes in general
- .3** Imbibition processes
 Using differential tanning by action of light (hydrotypes, Dorsthorpe process, pinatypes, photopoligrafy, contretipe negative, etc.), by development (Jos Pé, etc. processes).
 Using indirect chemic tanning (kodacrome, etc. processes).
 See also 778.66 Multiple color prints in 1 layer
- .4** Processes using organic compounds
 See also 773.7 Processes using dye-forming organic compounds
- .5** Dye processes Anilin processes
- .51** General questions
- 52** Using chromium salts
 Willis anilin process, etc.
- .53** Using chromium and vanadium salts
 Indemann anilin, anilin vapor, phototincture, tinctorial, Villain, etc. processes Photodyeing on fabrics, etc., photocromatic printing, etc. Dye mordant images, dye toning (see also 770.2836 Toning in general, 771.545 Toning dyes) Dyed colloid reliefs, etc.
- .54** Eikonogen printing processes

773.6

Photoceramics Photoenamels

Ceramic processes, burned in photographs, collodion or photographic enamels Carbon or pigment, dusting-on, substitution, etc photoceramic processes (for carbon or pigment and dusting-on processes in general see 773.1-2) Lambertaines, etc
See also 777.2 Photorelief enamel processes

.7

Processes using dye-forming organic compounds and sensitiv dyes

Using leucobases of dyes (pinacromy, Koenig color process, etc), diazo processes, diazotypes (primulin, ozalid, etc. processes, Kogels 'Integral photography', feertypes, etc.), using light sensitiv dyes (bleach-out images, etc), using dyes whose colors are discharged in proportion to amount of chemie reagent present (chemie bleach-out images), using plant juices (nature printing; anthotypes, phisotypes, etc) See also 773.4 Processes using organic compounds in general

.8

Oil pigment processes Pigmoil

Bromoil (bromoil transfer, oil transfer, etc), oil ozobrome (see also 773.125 Ozobrome processes in general)

.9

Other**774-777 Photomechanical processes**

774

**Photomechanical processes in general
Processes with gelatin and printers ink**

Process photography, fatty ink processes on sensitized colloid surfaces, photoprints See also 771.317 Process cameras

.1

General processes Surface processes

Collographic processes, collotypes, phototypes, photocollographs Photofane, photoverrotype, lichtdruck, etc. processes Albertypes, artotypes, heliotypes, autocopyist processes, collotype, sinop indotint, etc processes See also 777.2 Photorelief collotype enamel processes

.2

Preparation of support

.3

" " sensitiv surface

Sensitizing, drying, reticulation

.4

Exposure to light Developing

Camera operation; washing off unaltered bicromate and drying, preparing plate for printing or proofing, dampening with glycerin, water, etc.

.5

Printing Proofing or proving

Materials, methods, etc Plates, printing surfaces, rollers, presses, collotype ink

.6

Transfer processes

Stripping reversing etc

.7

Special half-tone processes

Photomezzotype, collotype phototint, etc.

- 774.8 Color reproduction**
 Special collotype processes for color printing chromocollotypes, chromocollography, Vidal photography, etc. See also 778.6 Color photography
- .9 Other**
 Processes for securing special designs graf processes, photo-mecanical processes not using pressure
- 775 Photolithography**
 Photographic printing on stone or analogous surfaces See also 763 Lithography
- .1 General photolithographic processes**
 Bicromated colloid (glue, gelatin, albumin), bitumen, asfaltolithographic, etc processes
- .2 Preparation of support**
- .3 " " sensitiv surface**
 Sensitizing, etc. as in 774.3
- .4 Exposure to light Developing**
 Dissolving and washing away undesired parts with water, turpentine, ether, alcohol, etc. Preparing stone for printing or proofing, damping, etc.
- .5 Printing Proofing or proving**
 Materials, methods etc Printing surfaces stone, etc., rollers presses, photolithographic ink, direct and offset photolithography, etc.
- .6 Transfer processes Photolitho transfer**
 Papirography, papirotipe, papirotint, ink photo, Shawcross amfitipe, etc. processes
- .7 Special half-tone processes**
 Frey process, Eckstein lithofotogravure, etc.
- .8 Photocromolithography**
 Photomecanical color printing from stone 'Autochrom', lithografic photoaquarel photocrome, photo autografy, lithografic autogravure, photo-oleograf, etc. See also 764 Chromolithography, 778.6 Color photography
- .9 Other**
- 776 Photometallography**
 Surface printing from metal plates photozincography, photoalgrafy photoaluminography, etc See also 763 Metallography
- .1 General processes**
 Using bitumen chromium salt sensitizers, etc , gisaldruck, etc.
- .2 Preparation of support**
 Grasning etc.
- .3 Preparation of sensitiv surface**
 Sensitizing etc
- .4 Exposure to light Developing**
 Preparing plate for printing, damping, special etching to affect moisture retaining properties of surface, etc
- .5 Printing**
 Printing surfaces, zinc and aluminum plates, rollers presses, photolithographic ink, direct and offset photometallography, etc.

- 776.6 **Transfer processes** **Photometallographic transfer**
 Ordoveryx or true-to scale process, etc
- .7 **Special half-tone processes**
 Jaffétype photogranulotype etc
- .8 **Photocromometallografy**
 Photomechanical color printing from metal plates photostone
 See also 764 Chromometallografy, 778 6 Color photography
- .9 **Other**
- 777 **Photomechanical engraving**
 Photoengraving photoetching
- .1 **Photointaglio processes**
 Photolithography, photogravure, heliogravure, photoaquatint.
 (See also 762 Intaglio engraving) Using a resist lithographic
 engraving, autogravure, intagliotype, etc. Photogravure by
 molding Mechanical processes, chipping with burin or graver,
 hand and machine photogravure Intaglio or inverted half
 tone, lithographic photogravure Galvanic photogravure
 Obernetter lichtkupferdruck, etc Etching on zinc (photo-
 zinc process), copper, brass, steel, glass (hyalofotografy), etc.
 Retouching, re-etching, finishing, routing mounting, inking
 printing or proofing Rotary photogravure Rembrandt
 process, mezzotintogravure, altogravure, simuliogravure,
 Vandyke-gravure, etc Plate graining, dusting, screen photo-
 gravure, etc
- .18 **Color printing by photogravure**
 Photo aquarel, mezzochrome, etc See also 778 6 Color photog-
 rafy
- .2 **Photorelief processes** **Phototypography**
 Letterpress printing plates line blocks, block processes (See also
 761 Relief engraving, 777 3 Half tone processes) Bitumen
 (asfaltotype) bicromated colloid, enamel (see also 773 6 Photo-
 graphic enamels) etc processes Enameline, fish glue adamantin,
 collotype (see also 774 1 Collotype processes in general), etc
 processes Exposure, developing, etching (paniconography,
 Gillotage, Gillotype, etc), printing or proving, photorelief
 transfer, etc
- .28 **Photorelief color printing**
 3-color letterpress, etc. See also 778 6 Color photography
- .3 **Half-tone processes**
 Discontinuous tone elements in photorelief printing (See
 also 777.2 Photorelief processes in general) Half tone screen
 processes Dallastype, Husnik leimtype isotype, Swantype,
 metzograf processes (expressotype, luxotype etc), wavy line,
 etc. processes Reticulation processes Dallastint, grain, etc.
 Mechanical cutting processes acrograf, etc Use of 2 or more
 negatives Cocking phototint, etc
- .4 **Plate multiplication**
 Photoelectrotyping photogalvanography Electrofototypy,
 flexible metallic films, lithonotypes or lithotypes, etc.

- 777.5 **Molding processes** **Photoplastography**
 Photostereotypes Obtaining hollow or relief molds by solution, swelling, etc.; gelatin reliefs. Portevin helioplatic process, Dallas rubbertype, Mosstipe, etc., plaster casts from photo-reliefs. Molding by pressure, galvanoplastic molds. General processes for obtaining prints with gelatinous ink. Woodburntypes photoglyptic (see also 773.124 Chromium pigment processes using pressure); stannotypes, Goupil gravure, etc. Gelatinous ink printing
- .6 **Photofiligranes** **Photolithofanes**
- .7 **Photosculpture**
 Photographs in relief, photographic bas-reliefs, cameos, etc.
- .8 **Photoxilography**
 Photographs on wood, xylofotographs. See also 761.2 Wood engraving
- .9 **Other photoengraving processes**
- 778 **Special applications** **Applied photography**

SUMMARY

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| 778 1 | Industrial reproduction | .4 | Stereoscopic photography |
| | Copying | 5 | Cinematography |
| .2 | Photographic projection | .6 | Color photography |
| .3 | Scientific applications: | .7 | Photography under special conditions |
| | photomicrography, tele- | 8 | Photographic recreations and illusions |
| | fotography, radiography, | .9 | Other applications |
| | photosurveying, etc | | |
- .1 **Industrial reproduction** **Copying**
 Documentary photography (For copying and enlarging cameras see 771.318) Special processes for reproducing documents, work (engravings, line drawings, etc.), photographs (photogravures, collotypes, half tone prints, etc.), colored objects, paintings, etc. (see also 778.6 Color photography)
- .11 **General questions**
- .12 **Reproduction in same scale as original**
 By direct printing, contact processes, copying industrial drawings reflection copying processes (catafotography, reflectography, playertypes), anastatic processes etc. By camera using ultraviolet light, etc. See also 621.3827 Facsimile telegraphy, 744.53 Blueprint and photostat reproduction of drawings, 770.2854 Negativ duplication
- .13 **Enlarging** **Macrofotography**
 Macrofotography
- .14 **Reduction**
 See also 778.315 Microfotography

778.2

Photographic projection

See also 771 318 Projection printers, 771 46 Viewing apparatus
 778 45 Stereographic projection 778 55 Cinematographic projection
 778 65 Photographic color projection

21

General questions

22

**Projection apparatus Projectors Lan-
terns**

Optic or magic lantern, stereopticon for projecting transparencies epidiastroscope, for projecting images of translucent objects, aphenescope opaque lantern episcope for projecting images of opaque objects (megascopes Kruss magic camera poliopticon auxanoscope mirroscope etc)
 Lantern body, lamp housings and optic system or parts
 lenses condensers (see also 771 442 Photographic condensers) reflectors objectives etc

23

Lantern illuminants

Special sources of light for projectors May be divided
 like 771 44 e g 778 237 Electricity

24

Projection screens

Including screen carriers holders frames etc

25

Positives and illustrations for projection

For viewing by transmitted or by reflected light Trans-
 parencies lantern slides films diapositives cristalotypes
 hyalotypes diagramatic lantern slides catapositives etc

26

Projection accessories

Slide carriers or holders carrier stages slide changers and
 changing devices focusing apparatus flasher or lens caps
 heat absorbers lantern curtains etc

27

Types of projections Operativ details

Projection of optic lantern views (operations with trans-
 parencies) of dissolving views of epidiastoscopic views (op-
 erations with translucent illustrations and objects) of
 opaque lantern views (operations with episcopic views)

28

Texts to accompany projections

29

Other topics

3

Scientific applications Scientific photography

31

Photomicrography

Photography of minute objects by aid of microscope In-
 cluding general discussions of the use of the microscope in
 photography Apparatus processes etc See also 578
 Microscopy 778 56 Cinematographic microphotography and
 photomicrography

315

Microphotography

Production of photographs of microscopic size by use of
 microscope See also 778 14 Reduction

316

Color photomicrography and microphotography

See also 778 6 Color photography

32

Telephotography

See also 771 352 Telefoto lenses

- 778 33 Radiography X ray (Röntgen ray) photography
 Sialography cathography Apparatus processes etc X ray cinematography (see also 778 5 Cinematography in general) stereoscopic radiography (see also 778 4 Stereoscopes in general) etc. See also 537 53 X rays as electrical phenomena in Physics
- 34 Fluorescent screen photography
 Invisible ray photography by means of fluorescent screens Effluviographs skotographs etc Ultraviolet and infra or ultrared photography See also 771 5345 Effects of emanations and vapors on sensitivity
- 35 Aerial photography
 Aerial cameras etc. See also 629 1356 Photographic equipment in Aeronautics 771 316 Panoramic cameras 778 38 Photogrammetry
- 36 Panoramic photography Wide angle work
 See also 771 316 Panoramic cameras 771 352 Wide angle lenses
- 37 High speed photography
 Instantaneous photography snapshots See also 771 36 Shutters
- 38 Photogrammetry Photosurveying
 Photographic measuring Phototopography photographic map reproduction, photogrammetry of moving objects (see also 778 5 Cinematography) See also 526 9 Surveying 778 35 Aerial photography
- 39 Other scientific applications
 Reflex photography etc. See also 778 1 Special processes for reproducing documents luminography etc
- 4 Stereoscopic photography Stereoscopes
 Reproduction of relief See also 778 33 Stereoscopic radiography 778 5341 Stereoscopic cinematography
- 41 General questions
- 42 Stereoscopic apparatus Stereoscopic cameras
 Stereoscopic duplicator, stereoscopic transmitter verascope special printing apparatus self transposition frames etc. See also 771 315 Binocular cameras 778 5341 Special apparatus for stereoscopic cinematography
- 43 Practical operations
 Stereoscopic prints and transparencies stereograms stereographs, anaglyphs hyperstereoscopes hypertelestereoscopes etc.

- 778.44 Stereoscopic viewing apparatus
Stereoscopes, directoscopes, cosmorama stereoscopes, stereoscopic spectacles, anaglifoscopes, etc. See also 771.46 General 2 lens viewing apparatus
- .45 Stereoscopic projection
Special apparatus, etc. Direct, indirect (projected images viewed thru special intermediate devices colored glasses, prisms, mirrors, shutters, etc.) See also 778.2 Photographic projection in general, 778.5541 Stereoscopic projection of moving pictures, 778.65 Photographic color projection
- .48 Applications of stereoscopy
See also 778.5341 Stereoscopic cinematography, 778.65 Stereoscopic color processes
- .5 Moving picture photography Cinematography
Study and apparent reproduction of movement by photography
Successive photographs of moving objects, animated pictures
See also 771.125 Cinematograph studios, 771.295 Furnishings of cinematograph laboratories and studios, 778.33 X-ray cinematography, 778.38 Photogrammetry of moving objects

SUMMARY

- | | | | |
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| 778.51 | General questions | .55 | Cinematographic projection |
| .52 | Chronofotography | .56 | " photomicrography |
| .53 | Cinematographic photography | .58 | Special preparation of cinematograph films |
| .54 | Direct vision apparatus | | |
-
- | | | |
|-----|---|------------------|
| .51 | General questions | |
| .52 | Chronofotography | Photocronography |
| | Successive photographs taken at known intervals | Ap |
-
- anorthoscope, tachiscope, theatrograph, zoopraxiscope, stereoscopic zoetrope, praxinoscope animatograph, etc.
- .53 Cinematographic photography
Moving picture cameras, photoplay photography, kinetoscopes, kinotographs For general questions see 778.51
- .531 With intermittent motion mechanism
Dog (Demeney chronophotographie, etc.), Maltese cross, pin, etc. movements
- .532 With continuous motion mechanism
Mutograph, etc
- .533 Special parts and devices of cinematographic cameras
Feeding devices and guides, sprockets, guide rollers, etc.; gates, image centering devices, shutters, film boxes or magazines; lens holders; control and winding devices, windups, film bobbins, reels or spools, safety devices, ventilation; antistatic devices, indicators, etc.

778.534

Special aspects of cinematography

Multiple images on normal picture area, composit pictures, plate cinematograf cameras, high speed and slow motion cameras, trick films, etc See also 778 554
Special aspects of cinematografic projection Clas here discussions common to both

1

Stereoscopic cinematography

Reproduction of relief in moving pictures See also 778 4 Stereoscapy in general

2

Color cinematography

Kinemacolor cameras, etc. See also 773 Processes using colord mixtures, etc., 778 6 Color photography in general

3

Endless film cameras

4

Talking films

Moving pictures with sound See also 534 4
Analysis of sounds

9

Home and hand cinecameras

Amateur and private cinematografy

.535

Taking texts and titles for cinematograf films

.538

Taking special subjects

May be divided like the whole classification eg 778 53807 Newsreel photography

.54

Direct vision apparatus

Laving or animated pictures Kinetoscopes (Edison's etc)
Moving pictures on rectangular plates, round disks or cylinders, etc., in book form, on radiating or turning leaves, mutoscopes, etc.

.55

Cinematografic projection

Moving picture projectors For fotografic projection in general see 778.2

.551

Intermittent projectors

Kammograf, etc

.552

Continuous projectors

-Biograf, bioscope etc

.553

Special parts and devices of cinematografic projectors

Condensers, illuminating systems, projection screens, etc. For scope of this number see note under 778 533

.554

Special aspects of cinematografic projection

Film splicing, linking cinematografic with other apparatus, plate projectors, projectors that can be slowed or stopt for projection of single pictures, advertizing projectors, etc. See also 778 534 Special aspects of cinematografy in general, where discussions common to both should be clast

Stereoscopic projection of moving pictures

For stereoscopic projection in general see 778.45

778 5542

Projection in colors Color films

Kinemacolor projectors, etc Stencil, coloring and dyeing processes, etc For photographic processes using colored mixtures, etc see 773 See also 778 58 Retouching cinematograph films, 778 65 Photographic color projection in general

3

Endless film projection

4

Projection of talking films

See also 534 4 Analysis of sounds

9

Home cineprojectors

.56

Cinematographic microphotography and photomicrography

Spiroscope, spirograph See also 778 31 Microphotography in general

.58

Special preparation of cinematograph films

with images and designs drawn by hand or machine (see also 741 58 Drawing of moving picture cartoons), lubrication, cleaning, polishing, varnishing, copying, darkening over, adding supplementary titles and script, etc

.6

Photography of colors Color photography

Chromofotography, heliocromy, natural color photography, photocromatic processes, policromatic photography, actinopolichromes, color cameras, etc See also

771 356 Color filters

5342 " sensitivity

773 Pigment imbibition, dye, etc processes

774 8 Collotype color printing

775 8 Photocromolithography

776 8 Photocromometalography

777 18 Color photogravure

777.28 Photorelief color printing

778 1 Copying colored objects

316 Color photomicrography

5342 " cinematography

5542 Cinematographic color projection

.61

General questions

.62

Photographic rendering of color tones

Rendering colors in monochrome Isocromatic, orthochromatic, orthoskiascopic, panchromatic, color contrast, etc

63

nt, Kopp

Postevin, Seebeck, etc. color processes

.64

Color photography by interference and bending of light waves

Helicromy by interference (Lippmann process, iridescent helicromy, etc.), by prismatic or optical dispersion, by diffraction (Wood diffraction grating process, etc.)

778.65

Additiv processes

Photographic color projection. Subjectiv processes (Baudan Ives, etc. color processes, chromograms, chromoscopes, kromskops, etc.), additiv projection in triple lantern; stereoscopic color processes, etc. See also 778.2 General photographic projection, 778.4 Stereoscopy and stereoscopic projection in general, 778.5542 Cinematographic color projection

.66

Subtractiv processes

Color reproduction by superposition of single monochrome impressions, etc. Processes using separate color filters and plates. Screen unit or screen plate color photography: Dufay dioptrichrome, omnichrome, dusting on, starch grain, lumière autochrome, agfa, etc. processes. Methods of registering screen unit plates (rotary screens, etc.) Stencil processes. Prints from colored plates superposed transparencies, superposed images on opaque supports (paper, etc.), multiple color prints contained in 1 layer (see also 773.3 Imbibition processes), prints from screen plates, etc. Dichromatic or 2 color processes (bipacks), trichromatic or 3 color processes (tripacks), multicolor processes (multipacks, cirochrome, etc.)

.68

Viewing apparatus

Special devices for viewing color photographs autocolormediascopes, etc.

.7

Photography under special conditions

.71

Outdoor, open air and field photography

.72

Indoor photography

.73

Submarine photography

Photography of immerst objects

.75

Photography in special climatic conditions

May be divided like 551.5 e.g. 778.752 Photography under special conditions of temperature arctic or cold, temperate tropic or hot wether photography

.8

Photographic recreations and illusions

Trick and freak photography. Cancature photography, distorted photographs (anamorfosis, photo-anamorfoscopes, etc.), multiple photographs of same object (polipose portraits doubles, etc., see also 771.3191 Multiplying apparatus); photographs of specters and illusions (psichic or thought photography), photographs of exhalations, unexplained effects, retinal impressions, etc. (psicography, etc.), magic and sympathetic photographs (photographic barometers), silhouet photography, luminous or phosphorescent photographs (ephemeral photography, etc.), composit portraiture (analytic or average portraiture, etc.) See also 771.352 Lenses for securing multiple or distorted images

.9

Other applications

May be divided like the whole classification for applications not classifiable elsewhere

779

Collections of photographs

May be divided like the whole classification, e.g. 779.2 Religious photographs

DECIMAL CLASSIFICATION

781.508

- 1 Movements of instrumental music
- 11 Allegro Presto Vivace
- 12 Andantino Andante Lento Adagio Largo
- 13 Minuet Scherzo Allegretto Rondo
- 14 Finale
- 2 Different instrumental compositions
Each of following divisions is divided like 781.5081; e. g.
781.508223 Sonata minuets
786.208223 Sonata minuets for piano
- 21 Symphony as a music genus
- 22 Sonata Sonatina
- 23 Chamber music
- 3 Forms of music
- 31 Suite
- 32 Variation
- 33 Fantasia Arabesque Toccata Moment musical
- 34 Nocturne Meditation Songs without words
- 38 Adaptations Arrangements Potpourris
- 4 Marches Pieces of martial step
- 5 Dances
- 51 Old dances
Minuet allemande, courant, pavan, etc.
- 52 Parlor dances Quadrils
- 521 Waltz
- 522 Polka
- 523 Mazurka
- 524 Polonaise
- 525 Quadril
- 526 Lancers quadril
- 527 Schottische
- 528 Galop
- 529 Other
- 53 Theater ballets
- 54 Juvenil dances
See also 796.13 Singing, dancing and marching games
- 57 National and caracter dances
See also Indoor entertainment 793.31
- 579 Special countries
Divided like 930-999
- 58 Artistic dances
See also Indoor entertainment 793.32
- 6 Overtures Entr'actes Interludes
- .6 Composition and execution
Composition of a special kind of music is class with that kind
- .61 Composition in general
- .62 Rhythm and meter Relation of poetry to music
- .63 Execution
- .631 Instrumentation
- .632 Orchestration
- 5 Profession of orchestra leader Direction of orchestras
- 7 Lyric and instrumental execution
Interpretation of vocal and instrumental music

- 781 633 Instruments and voices
 Score reading and playing Memorizing Phrasing
- 64 Adaptation Resolution Instrumental reduction
 Arrangements Transposition
- 65 Improvisation
- 66 Accompaniment
- 67 Embellishment
- .7 Theories and forms racial, national, etc
 For works treating of *theory and form* from viewpoint distinctly racial national etc
 See also 780.9 History and other general local treatment
 Divided 71 Primitive and savage peoples 72 Peoples not otherwise provided for
 (e.g. gods etc) 73 Like 930-999 but if wisht ancient music may be classed under
 8 divided like 930
- .8 Ancient music theories, modes and forms
 Divided like 930 see last note under 781.7
- .9 Various questions
- 91 Music instruments in general
 Temperament and harmony Manufacture repair verification
 Whatever concerns a group of instruments or an individual instrument is classed
 under corresponding division of 786-789
- 91065 Makers Manufacturers
- 74 Museums and collections
- 94 Different kinds of music in general
- 95 Music curiosities
 Music among animals bird songs See also 598.2 Birds
- 96 Music literature in general
 For general works, Librettos etc for individual composers or works or groups
 of works are preferably classed under corresponding numbers
- 961 Works of dramatic authors
 Librettos scenarios opera poems etc
- 962 Theater pieces with well known airs
 Vaudevils etc
- 963 Librettos or ballet poems
- 964 Librettos or oratorio and secular cantata poems
- 965 Librettos on sacred subjects
- 969 Manuscripts autographs etc of musicians
 Preferably classed with subject or if chiefly interesting as manuscripts in 991
- 97 Music bibliographies
 Only catalogs of music itself are classed here. Bibliography of writings relating to
 music is classed in 016.78
- 971 General bibliography of musical works
- 973 Catalogs Lists of definite sources
- 1 Public libraries
- 2 Private libraries
- 3 Auction catalogs
- 4 Publishers and dealers
- 5 Works of special composers
- 98 Publication
- 981 Engraving Typography Printing
- 982 Publishing
- 983 Sale Commercial questions
 See also 780.65 Commercial establishments 780.85 Commercial circulars

782 Dramatic music Theater music

As an alternativ to use of following subdivisions all operas etc may be arranged in a single alfabet by name of composer, or all grand opera may be so arranged under 782 1, or, with this latter as the general treatment for grand opera an exception may be made by using 782 2 for Wagner, with works under this number arranged according to Special author tables printed on last pages after Relativ index

Selections for either voice or instruments may be clast here with the original works or, if preferd under 784.21 Song selections or with the different instruments

o8 Polygraphy Collections

Including collections of analyses of and stories from operas by various composers

Analises of or stories from several works of a single composer or a single work ar clast with the works or work

.1 Grand opera

2 Epic Wagnerian

.3 Other German grand opera

4 French grand opera

5 Italian grand opera

.6 Comic and satiric

.7 Opera bouffe

.8 Operettas and secular cantatas Vaudeville

For sacred cantatas see 783 4

.84 Parodies

.9 Pantomimes, masks, etc.

783 Church music Sacred music

See 245 Hymnology, sacred poetry, for hymns alone if with tunes they go in 783 9, 786 8 Organ, 246 7- 8 Evangelistic use and Eucharistic music, 264 2 Public worship

.1 Organ and orchestral Accompaniment

.2 Liturgic music

21 Mass Communion services

Annotated missals

22 Common of the mass kyrie, gloria in excelsis, credo, sanctus, benedictus, Agnus Dei

23 Proper of the season offertory, gradual, tract, sequence

.24 Choral servis antiphonal, responsiv

Vespers Comphns

25 Plain song

26 Litanies

.27 Lenten and penitential Good Friday, reproaches

28 Liturgic dramas and mysteries

Festivals Christmas Easter etc

29 Solemnities Solemn masses Solemn marches

Requiem masses. Processionals. Recessionals

.3 Oratorio Passion music

.4 Anthem Motet Sacred cantata

Polyphonic school, Palestrina, 16th century

.5 Chant: Gregorian, Anglican

.6 Chorale Tune Carol

.65 Christmas carols and popular canticles

- 783 7 Evangelistic mission, revival Sunday school
 8 Choir men and boys Quartet Chorus
 9 Congregational singing Psalmody Hymnody
 784 Vocal music

With or without accompaniment

Dramatic music is classed under 782 and sacred music under 783

Vocal music is divided by kinds and f under each kind further subdivisions as needed may be made (1) by number of parts (2) by kind of voice according to table below
 e. g. 784 3062.31 Duet ballads for tenor voices

06

Solos

- 1 Children
 2 Women
 21 Soprano
 23 Mezzo soprano
 26 Contralto
 3 Men
 31 Tenor
 32 Baritone
 33 Bass

062 Duets

063 Trios

064 Quartets

065 Quintets

066 Sextets

067 Septets

068 Choruses

1 Children only

2 Women "

3 Men "

4 Mixed choruses (men women and children)

5 Vocal parts with choruses

.1 Glee Madrigal Round Catch

2 Aria Cavatina Recitativ

e. g. in oratorio mass opera Preferably classed with vocal from which they are taken

21 Extracts from theatric music scores

22 " " masses and sacred music

23 " " oratorios

25 Recitatives Declamations with music Melologs

3 Vocal chamber music

Ballads songs melodies romantic lyric sentimental Dance songs

35 Canzonets

4 Folk songs

Songs of the soil cowboy songs sea songs chanteys drinking songs

See also 783 65 Christmas carols and popular canticles. 784 71 National air songs and hymns

49 By country Divide like 930-999

5 Festival, e. g. sangerbund, eisteddfod Competitiv

- 784 6 Student songs Society songs Choruses Community singing
- 62 Student songs School songs
- 622 College songs
 Including those of professional and technical schools
- 623 Secondary schools
- 624 Elementary schools
 Including children's songs in general
- 625 Kindergartens
 Preferably class with Kindergartens in 372 2152 Songs
- 66 Societies
 Masonic songs etc. If purpose of society is emphasized rather than society itself class under 784 68
- 67 Corporations and trades
- 672-6799 Special trades
 Divided like 620-699. For those not included in 620-699 use 784 671 divided like main classification.
- 68 Topical songs
 e.g. temperance labor baseball
 Divided like main classification
- 7 Other kinds of songs
- 71 National airs songs and hymns
 Patriotic and political songs martial songs
- 719 By countries
 Divided like 930-999
- 75 Exotic songs
- 752 Gipsy songs
- 756 Negro " Negro minstrelsy Plantation songs
- 8 Collected songs
 81-85 may be subdivided like 784 061 e.g. 784 8131 Collection of tenor solos, 784 8231 Collection of tenor duets
- 81 Solos
- 82 Duets
- 83 Trios
- 84 Quartets
- 85 Other part songs
- 86 Choruses
 Subdivided like 784 068
- 87 Collections for male voices
- 88 Collections for female voices
- 89 Other special collections
- 9 Art of musical expression
 Technique and studies
- 91 Generalities
- 92 Physiology of voice and vocal organs
 See also in physiology 612 78 Voice and speech
- 93 Hygiene and vocal gymnastics
 Voice culture breathing pronunciation
 See also 808 5 Oratory
- 94 Special methods or forms of musical expression
 Tonio-sol fa tone formation vowel exercises solfeggios
- 95 Applications to dramatic art
- 96 Performance in concert Choruses

785 Instrumental ensemble

Symphonic and instrumental music. Grouping of instruments

.1 Orchestral music

For dramatic orchestral music see 782 sacred 783 1

11 Symphony

Three or more movements e g adagio andante allegro allegretto scherzo finale etc Tone poems

12 Wind instruments and brass band

121 Wind instruments

122 Brass band

13 Military music

15 Music of the chase

2 Music for orchestra, with voices

For dramatic orchestral music see 782

21 Symphonic singing Secular oratorios

22 Dramatic illustrative descriptive program imitative

e g Mendelssohn's Midsummer night's dream

.3 Romantic, idyllic

4

.5 Overture e g Beethoven's Leonore's

.6 Concerto orchestral with solo instrument

.7 Chamber music

Music suitable for a private house or small hall written for several instruments played in concert from duets to nonets without trying to make a special instrument distinctly prominent

Chamber music is divided by parts as follows

72 Duet 76 Sextet

73 Trio 77 Septet

74 Quartet 78 Octet

75 Quintet 79 Nonet

8 Suite

9 Arrangements, transcriptions, potpourris

786 Keyboard instruments

1 Instruments played with strings and keyboard

.2 Piano

22 History

221 Early forms Forerunners

Harpsichord, clavichord spinet, virginal

23 Manufacture Tuning Temperament Repairing

.3 Instruction

31 Hand

32 Touch

33 Scales

34 Octaves Cords Arpeggios

35 Pedal

790

Amusements

For others of amusements, see 775

791

Public entertainment

Including summer resorts, amusement parks and museums discuss from standpoint of public entertainment

For wrestling and other athletic sports see 795.8 For customs see 394

.1

Traveling shows

Clowns, mountebanks, jugglers, tightrope walkers, rope dancers, conjuring, ventriloquism, minstrel shows

For private performances see 793. For circuses see 791.3

.2

Concerts **Floral games**

Music and poetry competitions

.3

Circuses

Hippodromes, horse shows, equestrian games

.4

Panoramas**Magic lanterns****Moving pictures** **Radio**

Class here general works on moving pictures as entertainment. For photography see 792 For moving pictures as method of education see 371.33513

.5

Waxworks**Miniature theaters****Shadow pantomimes**

Marionets, puppets, Punch and Judy

.6

Public fêtes

Fairs, pageantry, historic pageants, Mardi Gras, parades, cavalcades, illuminations, fireworks

.7

Public games and sports

Jousts, greast poles, see-saws, swings, merry-go-rounds, roller coasters, rinks

.8

Menageries**Trained animals**

Animal sports Combats between and against animals wrestling bears, bull-fights, dog fights, baiting badgers, cat and rat fights, cock fights, etc.

Trained or trick animals. For horse racing see 791.4, for racing other animals 798.8

.9

Other

792

Theater**Stage****Dramatic art**

For plays See also 783 Dramatic music, 793.1 Private theatricals For architecture of theaters see 725.82 for dramatic literature see appropriate subdivisions under 800

.1

Serious drama**Tragedy**

Passion plays miracle plays morality plays

.2

Comedy**Vaudevil**

.3

Farce**Pantomime**

.4

Opera**Lyric drama**

.5

Comic opera

.6

Operetta and musical comedy

.7

Music halls

See 725.81

.8

Ballet**Fairy scenes****Choreography**

.9

Other

793

Indoor entertainment**Parties**

Including lawn parties etc.

.1

Private theatricals

See also 792 Theater

.2

Entertainments requiring preparation

.22

Seasonal entertainments

Autumn, Christmas, Washington's birthday, May day

.24

Tableaux**Charades**

Tableaux vivants, acted scenes, scenes of simulation

- 793 3 **Dancing**
 For choreography and ballets see 792 8 for children's dances see 796 13
- 31 **Folk dances** **National dances**
 See also Music 781 50857
- 32 **Artistic dancing**
 Theatric dancing Characteristic dances Classic dances old Greek dances
 Old French dances minuet gavot For dances of North American Indians
 see 970 6
 See also Music 781 50858
- 33 **Dances for 2 persons**
 Round dances polka waltz mazurka redowa schottish 2-step tango etc
- 34 **Dances for more than 2 persons (without accessory features)**
 Quadril 4 step lancers Virginia reel etc
- 35 **Dances (with accessory features)**
 Cotillon german sword dance etc.
- 38 **Balls**
 3808 Programs german cards, etc.
 382 Court or state balls
 384 Public balls
 386 Mask and fancy-dress balls
- 4 **Games of action**
 Blindman's buff hot cockles hunt the slipper
- 5 **Forfeit and trick games**
- 7 **Games not characterized by action**
- 71 **Instructiv games**
 Including memory games
 Alliteration authors logomachy observation spelling match etc
- 72 **Games of quick wit**
 Fish flesh and fowl prohibited words etc
- 73 **Guessing games** **Riddles** **Conundrums** **Puzzles**
 Identification crambo acrostics anagrams rebuses etc For charades see
 793 2
- 74 **Mathematical games**
 Including games requiring calculation
 Quadralets magic squares etc
- 75 **Table games**
 Angling bobéchon jackstraws tiddledewinks etc
- 76 **Ring games**
 Button button compliments nonsense scandal etc
- 8 **Parlor magic**
 Scientific amusements including pseudoscience
- 9 **Other indoor diversions**
- 794 **Games of skill**
- 1 **Ches**
- 2 **Checkers and similar games**
 Drafts gobang agon, fanorona halma etc
- 5 **Marble solitaire** **Peg solitaire**
 For card solitaire see 795 43
- 6 **Bowling** **Skittles** **Ninepins** **Tenpins**
 For lawn bowling see 796 31
- 7 **Indoor ball games: cue, mallet, racket**
 Billiards pool, carom, troco

795 Games of chance

.1 Games with dice and bones

Game of goose track, track, backgammon, reverter

.2 Wheel and top games

Tottotum roulette steeplechase

For steeplechase with significance of cross-country racing see 795.43

.3 Games dependent on drawing numbers or counters

Lotto bingo, keno dominoes, matador mah jong

.4 Card games

41 Games of skill

Piquet imperial, écarté, euchre, trumps, poker, whist, ombre, revers, cribbage

Boston, skat, bridge, auction bridge, solo, etc.

42 Games of chance

Cleeck, 31, rouge et noir, 30 and 40, Pope Joan, lansquenet, baccarat, faro, monte, truth, etc.

43 Games based on position and skill

Patience, card solitaire, card tricks

For fortune-telling by cards see 133.324

.5 Games dependent on articles tossed or rolled

796 Athletic and outdoor sports and games

Public playgrounds and athletic fields. For school games and athletics see 371.74

00037 Rules, umpires, etc.

01 Theory Purpose Value

02 Compendis

.03 Dictionaries Cyclopedias

04 Essays Addresses Lectures

.05 Periodicals

.058 Annuals Directories

06 Associations Societies Clubs

063 Congresses Conferences

07 Education Training Coaching

08 Polygraphy

09 History

Divided like 930-999

.1 Children's games Open air play

See also under Kindergarten 372.355

11 Games for smallest children

For toys and nursery play see 649.35

12 Children's sand and seashore amusements

13 Singing, dancing and marching games

Ring games, rounds and dances

See also Music 781.50854

14 Active games Chasing games

Leap frog, somersault, hide and seek, puss in corner, prisoner's base, etc.

Counting-out games

15 Aerial toys

Kite flying, aeroplanes, balloons

796 2 **Activ games with appliances**

For ball games see 796 3

.21 Shovelboard hopscotch swing hoop skipping rope

23 Minor ground games

Marbles jackstones mumble the peg

24 Pitching games

Quits horseshoe pitching pitch and toss tipcat

25 Toss and catch games

Cup and ball diabolo bean bag

26 Battledore and shuttlecock

3 **Ball games Throwing games**

31 Balls thrown directly by hand

Handball field ball Indian ball cavalry ball poison ball lawn bowling etc.

32 Inflated ball thrown by hand

Basket ball, volley ball pallone etc

33 Inflated ball driven by foot

Football soccer Rugby pushball etc

34 Ball thrown with racquet

Tennis la crosse badminton squash etc.

35 Ball driven by mallet or bat

351 Generalities

Mallet games

.352 Golf

353 Polo

354 Croquet, pall mall, etc

.355 Field hockey

Bat games

.357 Baseball

358 Cricket

37 Other throwing games

38 Throwing sports

Javelin spear boomerang discus shot putting

4 **Athletic exercises Gymnastics Olympic games**

For physical education see 371 73 for hygiene see 613 7

407 Systems

Light exercises

41 Calisthenics

Exercises for strength and suppleness Free exercises setting up exercises
dumb bells barbells Indian clubs wands

42 Marching Running Stilts

Cross country distance foot marathon running hurdle racing sprinting etc

Heavy exercises

43 Jumping Vaulting Balancing

High jumping broad jumping springboard pole vaulting horse vaulting
balancing exercises, mat work pyramids etc

44 Horizontal bars Parallel bars

46 Trapeze Rings Ropes Ladders

47 Acrobaticism Contortion Tumbling

DECIMAL CLASIFICATION

- 796 5 Touring Climbing Pedestrianism Camping
- 51 Pedestrianism Walking
- 52 Alpinism Mountain climbing
- 521 Guides rules and rates
 - For insurance of guides see 368 41 Accident insurance
- 522 Dangers and accidents precautions and rules
 - For accidents not due to climbing see 551.3 landslides 551.31 avalanches 551.57 freshets For maladies see 616 Pathology and 612 Physiology 612 27511 Mountain sickness 616.12 Heart disturbances 616 13 Hemorrhage of arteries 616 243 Hemorrhage of lungs 616 841 Vertigo
- 523 Calls and signals
- 53 Caravaning Touring
- 54 Camping
- 545 Woodcraft
- 6 Cycling
 - Man power locomotiv apparatus
 - Solely as sport
- .7 Automobiling
 - Motor driven veh cles
 - Solely as a sport
- .8 Athletic combats
 - See also 791 8 for combats with animals
- 81 Wrestling
- 82 Olympic, Greco-Roman wrestling
- 83 Boxing
- 86 Fencing
 - For rules of dueling see 394 8
- 862 Quarterstaf fencing Singlestick
- 863 Foil and sword
- 865 Saber
- 9 Ice and snow sports Ice carnivals
- 91 Skating
- 92 Snow shoeing
- 93 Skung Ski lobing Skjoring
- 94 Sleighing Sledging
- 95 Coasting Tobogganing
- 96 Ice games
 - Ice hockey bandy curling ice baseball
- 97 Ice sports
 - Ice boating cycling horse racing

797 Boating and other water sports Aerostation

.1 Boating

Solely as a sport for commercial navigation see 386 387 and 650 for theory see 527

12 With poles paddles oars sails

122 Canoeing

Paddling sculling

.123 Rowing Punting

124 Sailing

Yawl catboat etc

125 Motor boats

14 Yachts Racing Water carnivals

Launches houseboats

For interschool races see 371 75

15 Excursion boats

17 Minor methods of navigation

Velocipeds podoscafs water toboggans etc

.2 Swimming and diving

21 Swimming without apparatus

22 " with "

25 Games

Water polo canoe polo water quaitain

5 Aerostation

As a sport For construct on of air craft see 629 13 for commercial & de see 387 7

798 Horsemanship Racing

As a sport For care of horses see 636 1

2 Horsemanship

22 Training saddle horses

23 Riding

24 Riding schools Riding exhibitions

4 Horse racing Trotting

Courses tracks

Race horses breeding training may if preferd be class under 636 12

45 Obstacle races Steeplechases

6 Carriage horses Spans

See also 636 14

62 Training carriage horses

64 Driving Coaching

66 Carriageways drives Exhibitions of driving

.8 Racing other animals

Whippet racing

799 Fishing, hunting, target shooting

Solely as a sport For trapping and hunting as an industry see 639 I, for fishing as an industry see 639 2-6

.1 Fishing

- 11 Freshwater fishing
- 12 Angling
- 13 Net fishing Seining
- 14 Other methods of fishing
- 15 Shore fishing
- 16 Sea fishing 166 By oceans Divided like 551 46
- 17 For special kinds of fish
 Subdivided like 597

.2 Hunting

- 21 Shooting game
- 22 Hunting in open country and in covers
- 23 Hunting with retrievers, pointers
- 24 Bird hunting
- 242 Land birds
 Field and cover hunting
- 243 Bay shooting Shore shooting Fowlbirds
- 244 Water fowl
- 248 Special birds
 Subdivided like 598
- 25 Hunting with hounds falcons etc Jack hunting, drag hunting
 For general works on both dangerous and nondangerous animals, also not dangerous animals alone For dangerous animals alone see 799 26 For special animals dangerous or nondangerous see 799 27
- 26 Hunting dangerous animals
- 261 Generalities
- 262 Methods
 Firearms bolas lasso spear boomerang sling etc
- 27 Special animals
 May be subdivided for 799 271 278 like 599 1 8 adding (if needed) man hunting as 799 2789 and classing creatures not included under 599 in 799 279 subdivided like 500 e g crocodile hunting 799 270814 or 1 prefered may be arranged alphabetically by a sixteenth Cutter book number from name of animal

- 28 Hunting with camera Divided like 502-509

- 29 By country
 Divide like 930 999

.3 Shooting (otherwise than for game)

For shooting game see 799 21

- 31 Target practice Trap shooting
 With firearms pistols, shotguns rifles carbines
- 32 Archery longbow, crossbow
- 39 Other means of shooting
 Catapult airgun

Literature

Belles-lettres

The classification of literature is by *language* not country, except that North and South American are separated from other English Canadian French goes with 840 Australian and Indian English with 820, South American Spanish with 860 etc. Numbers assigned to individual authors include only their *literary* works of that section and complete works which can not be divided.

Books on other subjects go with their proper

800 Literature: general works

- 801 Philosophy Theories Literary esthetics
- 802 Compends, outlines
- 803 Dictionaries, cyclopedias
- 804 Essays, lectures, addresses

- 805
- 806 Societies: transactions, reports, etc.
- 807 Study and teaching of literature
- 808 Rhetoric Literary composition Collections

Divided 1 Poetry may be divided like 811 02-07 2 Drama 3 Fiction

.8

- 809
- 801-807 may be used like 803 1-7 e.g. 808 801 General collections of dialect poetry from various literatures

- 808 Collections representing special racial groups Jews, negroes, etc.
May be divided ethnically like 400 under each 1-7 may be used like 808 1-7
e.g. 808 8080642 Collections of negro drama. N.B. Emphasis here is on race, not language

809

.9

All used to illustrate the 4000 under 808 1-8 may be used for literary form like 811-818, e.g. 808 922 Esperanto drama

809 History of literature in general

Including general histories of books and knowledge e.g. Hallam's *Literature of the middle ages*. Divided like 808 1-7 e.g. 809 3 History of fiction

- .8 History of literatures of special racial groups: Jews, negroes, etc.

Divided as indicated under 808 808

- .9 History of literature in general by locality

This provides for literary histories of countries using more than 1 language. Divided as indicated under 808 809 e.g. 809 91294 History of Swiss literature 809 940041 History of Swiss poetry, 809 95242 History of the drama in India, 809 952424 History of the literatures of Rajputana

810 American literature

Includes Canadian English, which may be kept separate by prefixing C e.g. C811 Canadian poetry

1 Philosophy 2 Compends 3 Dictionaries 4 Essays on American literature
5 Periodicals 6 Societies 7 Study and teaching 8 Collections 9 History of American literature

811 American poetry

01 Dramatic 02 Romantic and epic 03 Lyric ballads 04 Didactic
05 Descriptive 06 Satiric and humorous 07 Collections 08 History of American poetry

.1 Colonial 1607-1776

11	Sandys, George	1577-1644
12	Bradstreet, Anne	1612-72
13	Wigglesworth, Michael	1631-1705
14	Green, Joseph	1706-80
15	Livingston, William	1723-90
16	Ferguson Elizabeth	1739-1801

.2 Post-revolutionary 1776-1830

21	Trumbull John	1750-1831
22	Dwight, Timothy	1752-1817
23	Barlow, Joel	1755-1812
24	Freneau Philip	1752-1832
25	Alsop, Richard	1761-1841
26	Pierpont, John	1785-1866
27	Dana, Richard Henry	1787-1879
28	Sprague, Charles	1791-1875
29	Other poets	

.3 Middle 19th century 1830-61

31	Halleck, Fitz Greene	1790-1867
32	Poe, Edgar Allan	1809-49
33	Bryant, William Cullen	1794-1878
34	Longfellow, Henry Wadsworth	1807-82
35	Read Thomas Buchanan	1822-72
36	Whittier, John Greenleaf	1807-92
37	Lowell, James Russell	1819-91
38	Whitman Walt	1819-92
39		

.4 Later 19th century 1861-1900

41	Stoddard, Richard Henry	1825-1903
42	Hayne, Paul Hamilton	1831-86
43	Stedman, Edmund Clarence	1833-1908
44	Winter, William	1836-1918
45	Müller, Cincinnati Hiner (Joaquin)	1841-1913
46	Taylor, Bayard	1825-78
47	Lanier, Sidney	1842-81
48	Gilder, Richard Watson	1844-1909
49	Other	

.5 Early 20th century 1901-

812 American drama

- | | | |
|-----|------------------------------|-----------|
| .1 | Colonial 1607-1776 | |
| .11 | Warren, Mercy | 1728-1814 |
| .12 | Godfrey, Thomas | 1736-63 |
| .13 | | |
| .2 | Post-revolutionary 1776-1830 | |
| .21 | Tyler, Royall | 1757-1826 |
| .22 | Dunlap, William | 1766-1839 |
| .23 | Hillhouse James Abraham | 1789-1841 |
| .24 | Ingersoll, Charles Jared | 1782-1862 |
| .25 | | |
| .3 | Middle 19th century 1830-61 | |
| .31 | Ritchie Anna Cora Mowatt | 1818-70 |
| .32 | Mathews, Cornelius | 1817-89 |
| .33 | Boker, George Henry | 1823-90 |
| .34 | | |
| .4 | Later 19th century 1861-1900 | |
| .41 | | |
| .5 | Early 20th century 1901- | |

813 American fiction

- | | | |
|-----|------------------------------|-----------|
| .1 | Colonial 1607-1776 | |
| .2 | Post-revolutionary 1776-1830 | |
| .21 | Brackenridge Hugh Henry | 1748-1816 |
| .22 | Rowson, Susanna | 1762-1824 |
| .23 | Brown Charles Brockden | 1771-1810 |
| .24 | Cooper, James Fenimore | 1789-1851 |
| .25 | Ware, William | 1797-1852 |
| .26 | Neal, John | 1793-1876 |
| .27 | | |
| .28 | | |
| .29 | | |
| .3 | Middle 19th century 1830-61 | |
| .31 | Thompson, Daniel Pierce | 1795-1868 |
| .32 | Kennedy, John Pendleton | 1795-1870 |
| .33 | Hawthorne, Nathaniel | 1804-64 |
| .34 | Judd, Sylvester | 1813-53 |
| .35 | Summs William Gilmore | 1806-70 |
| .36 | Melville, Herman | 1819-91 |
| .37 | Stowe, Harriet Beecher | 1812-96 |
| .38 | | |
| .39 | | |
| .4 | Later 19th century 1861-1900 | |
| .41 | Alcott, Louisa May | 1832-88 |
| .42 | Eggleston, Edward | 1837-1902 |
| .43 | Howells, William Dean | 1837-1920 |
| .44 | Aldrich Thomas Bailey | 1836-1907 |
| .45 | Harte, Francis Bret | 1839-1902 |
| .46 | James, Henry | 1843-1916 |
| .47 | Hawthorne, Julian | 1846-1934 |
| .48 | Burnett, Frances Hodgson | 1849-1924 |
| .49 | Minor novelists | |
| .5 | Early 20th century 1901- | |

- 814 American essays
- .1 Colonial 1607-1776
 - .2 Post-revolutionary 1776-1830
 - 21 Rush, Benjamin 1745-1813
 - 22 Webster, Noah 1758-1843
 - 23 Channing, William Ellery 1780-1842
 - .3 Middle 19th century 1830-61
 - 31 Ossoli, Margaret Fuller 1810-50
 - 32 Giles, Henry 1809-82
 - 33 Tuckerman, Henry Theodore 1813-71
 - 34 Holland, Josiah Gilbert 1819-81
 - 35 Whipple, Edwin Percy 1819-86
 - .36 Emerson, Ralph Waldo 1803-82 See also 191.3
 - 37 Curtis, George William 1824-92
 - .4 Later 19th century 1861-1900
 - 41 Burroughs, John 1837-1921
 - 42 Higginson, Thomas Wentworth 1823-1911
 - 43 Mabie, Hamilton Wright 1846-1916
 - 44 Matthews, Brander 1852-1929
 - 45 Repplier, Agnes 1858-
 - .5 Early 20th century 1901-
- 815 American oratory
- .1 Colonial 1607-1776
 - 11
 - 12
 - .2 Post-revolutionary 1776-1830
 - 21 Hamilton, Alexander 1757-1804
 - .22 Ames, Fisher 1758-1808
 - .23 Wirt, William 1772-1834
 - 24 Randolph, John 1773-1833
 - .25 Clay, Henry 1777-1852
 - .26 Calhoun, John Caldwell 1782-1850
 - .27 Webster, Daniel 1782-1852
 - .28
 - .29
 - .3 Middle 19th century 1830-61
 - 31 Everett, Edward 1794-1865
 - 32 Choate, Rufus 1799-1859
 - 33 Sumner, Charles 1811-74
 - .34 Phillips, Wendell 1811-84
 - 35 Chapin, Edwin Hubbell 1814-80
 - 36 Beecher, Henry Ward 1813-87
 - .4 Later 19th century 1861-1900
 - 41
 - 42
 - 43
 - 5 Early 20th century 1901-
- 816 American letters *Subdivided by periods, like 814*

817 American satire and humor

- .1 Colonial 1607-1776
- | | | |
|----|-----------------------|-----------|
| 11 | Ward, Nathaniel | 1570-1653 |
| 12 | Alsop, George | 1638- ? |
| 13 | Byles, Mather | 1706-88 |
| 14 | Hopkinson, Francis | 1737-91 |
| 15 | Peters, Samuel Andrew | 1735-1826 |
- .2 Post-revolutionary 1776-1830
- | | | |
|----|-----------------------------|-----------|
| 21 | Story, Isaac | 1774 1803 |
| 22 | Fessenden, Thomas Green | 1771-1837 |
| 23 | Paulding, James Kirke | 1779-1860 |
| 24 | Irving, Washington | 1783-1859 |
| 25 | Verplanck, Gulian Crommelin | 1786-1870 |
- 26
- 27
- .3 Middle 19th century 1830-61
- | | | |
|----|---------------------------------|-----------|
| 31 | Neal, Joseph Clay | 1807-47 |
| 32 | Holmes, Oliver Wendell | 1809-94 |
| 33 | Shelton, Frederick William | 1814-81 |
| 34 | Shillaber, B P (Mrs Partington) | 1814-90 |
| 35 | Saxe, John Godfrey | 1816-87 |
| 36 | Cozzens, Frederick Swartout | 1818-69 |
| 37 | Browne, C F (Artemus Ward) | 1814-67 |
| 38 | Haliburton, Thomas Chandler | 1796-1865 |
| 39 | Other satirists and humorists | |
- .4 Later 19th century 1861-1900
- | | | |
|----|-------------------------------|-----------|
| 41 | Warner, Charles Dudley | 1829-1900 |
| 42 | Locke, David Ross (P V Nasby) | 1833-88 |
| 43 | Burdette, Robert J | 1844-1914 |
| 44 | Clemens, S L (Mark Twain) | 1835-1910 |
| 45 | Carleton, William | 1845-1912 |
| 46 | Shaw, Henry W (Josh Billings) | 1818 85 |
| 47 | Nye, Edgar Wilson (Bill Nye) | 1850-96 |
| 48 | Bangs, John Kendrick | 1862-1922 |
| 49 | Other satirists and humorists | |
- .5 Early 20th century 1901-

818 American miscellany

.3 Middle 19th century 1830-61

31 Thoreau, Henry David 1817-62

32 Mitchell, Donald Grant (Ik Marvel) 1822-1908

.4 Later 19th century 1861-1900

.5 Early 20th century 1901-

.9 American (U. S.) dialect, racial and local literature

For Canadian English literature see 819

91 General questions

911-918 may be used for literary forms like 811-818, e.g. 818 911 American dialect poetry

92 American literature according to native language combination or racial element represented

Swedish American Italian American etc Divided like 820-899 e.g. 818 92397 Swedish American dialect literature 818 923977 Swedish American humor 818 92924 Jewish American literature 818 92964 Negro American literature

94-99 American regional and local literature

Divided geographically like 974-979 Each step in the geographic subdivision may be further subdivided by 1-8 for literary forms like 811 818 with 9 used for further geographic subdivision like that of the area under which it falls each of these in turn subdivided by literary forms 1-8 with 9 used for the next step in geographic subdivision followed by further subdivision by literary forms and so on to as minute degree as may be desired See illustration below Alphabetic arrangement may be substituted at any point if preferred

94 Literature of New England and North Atlantic states

941-948 literary forms (poetry, drama, etc.) like 811-818, e.g. 818 941 New England poetry

949 divided by states like 974

1 Maine literature

11-18 literary forms e.g. 818 94911 Maine poetry

19 Literature of Maine counties

Divided like 974 1

191 Literature of Aroostook co

1-8 literary forms e.g. 818 9491911 Poetry of Aroostook co

9 Local Aroostook

192 Literature of Somerset co

1-8 literary forms e.g. 818 9491921 Poetry of Somerset co

89 Local Somerset

9 Literature of Piscataquis co

91-98 literary forms e.g. 818 94919291 Poetry of Piscataquis co

99 Local Piscataquis

193 Literature of Penobscot co

1-8 literary forms e.g. 818 9491931 Poetry of Penobscot co

9 Local Penobscot

Etc.

819 Canadian English literature

For French Canadian literature use 848 99791

1-8 Literary forms like 811-818, e.g. 819 1 Canadian poetry

89 Canadian provincial and local literature

*Divided to provinces like 971 under each 1-8 Literary forms 9 further local
divided like history number for province (as explained in note under 818 94) e.g.
819 8911 British Columbia poetry*

.9 Other American English

For method of subdivision under each section see note and illustrations under 818 94

92 Mexican English

929 Mexican local divided like 972 1-7

93 Central American English

939 Local divided like 972 8

94 West Indies English

949 Local divided like 972 9

98 South American English

989 Local divided like 980

820 English literature

Canadian literature may be class as British, if preferd, but separated by prefixing C to 820 See note to 820

820 1 Philosophy .2 Compendis .3 Dictionaries 4 Essays on English literature
5 Periodicals .6 Societies 7 Study and teaching 8 Collections 9 History

821 English poetry

.02 Dramatic 03 Romantic and epic 04 Lyric, ballads 05 Didactic
.06 Descriptive 07 Satiric and humorous 08 Collections 09 History of
English poetry

.1 Early English 1066-1400

11	Layamon	1150-1207
12	Ormin	1187-1237
13	Robert of Gloucester	1245-1307
14	Minot, Lawrence	1313-52
15	Langland, William	1332-99
16	Barbour, John	1316-95
17	Chaucer, Geoffrey	1340-1400
18	Gower, John	1325-1408
19	Minor writers	

.2 Pre-Elizabethan 1400-1558

21	Lydgate, John	1369-1461
22	Skelton, John	1460-1529
23	Dunbar, William	1460-1520
24	Douglas, Gavin	1474-1522
25	Hawes, Stephen	1483-1509
26	Lyndsay, Sir David	1490-1555
27	Wyatt, Sir Thomas	1503-42
28	Surrey, Henry Howard, earl of	1517-47
29	Minor writers	

.3 Elizabethan 1558-1625

31	Spenser, Edmund	1553-99
32	Sidney, Sir Philip	1554-86
33	Daniel, Samuel	1562-1619
34	Drayton, Michael	1563-1631
35	Davies, John	1569-1626
36	Drummond, William	1585-1649
37	Fletcher, Giles and Phineas	1585-1650
38	Herbert, George	1593-1632
39	Minor writers	

.4 Post-Elizabethan 1625-1702

41	Suckling, Sir John	1609-42
42	Crashaw, Richard	1616-50
43	Herrick, Robert	1591-1674
44	Waller, Edmund	1605-87
45	Lovelace, Richard	1618-58
46	Cowley, Abraham	1618-67
47	Milton, John	1608-74
48	Dryden, John	1631-1700
49	Minor writers	

- 821.5 Queen Anne Early 18th century 1702-45
- .51 Prior, Matthew 1664-1721
 - .52 Parnell, Thomas 1679-1717
 - .53 Pope, Alexander 1688-1744 See also 827.51
 - .54 Ramsay, Allan 1686-1758
 - .55 Young, Edward 1684-1765
 - .56 Thomson, James 1700-48
 - .57 Collins, William 1721-59
 - .58 Shenstone, William 1714-63
 - .59 Minor writers
- .6 Later 18th century Pre-revolutionary 1745-1800
- .61 Gray, Thomas 1716-71
 - .62 Akenside, Mark 1721-70
 - .63 Chatterton, Thomas 1752-70
 - .64 Goldsmith, Oliver 1728-74
See also 823.64 and 824.66
 - .65 Cowper, William 1731-1800
 - .66 Macpherson, James 1738-96
 - .67 Burns, Robert 1759-96
 - .68 White, Henry Kirke 1785-1806
 - .69 Minor writers
- .7 Early 19th century Post-revolutionary 1800-37
- .71 Wordsworth, William 1770-1850
 - .72 Coleridge, Samuel Taylor 1772-1834
 - .73 Southey, Robert 1774-1843
 - .74 Scott, Sir Walter 1771-1832 See also 823.74
 - .75 Moore, Thomas 1779-1852
 - .76 Byron, George Gordon Noel, 6th lord 1788-1824
 - .77 Shelley, Percy Bysshe 1792-1822
 - .78 Keats, John 1795-1821
 - .79 Minor writers
- .8 Victorian period 1837-1900
- .81 Tennyson, Alfred, 1st baron 1809-92
 - .82 Browning, Elizabeth Barrett 1809-61
 - .83 Browning, Robert 1812-89
 - .84 Rossetti, Dante Gabriel 1828-82
 - .85 Morris, William 1834-96
 - .86 Swinburne, Algernon Charles 1837-1909
 - .87 Bridges, Robert Seymour 1844-
 - .88 Watson, Sir William 1858-
 - .89 Minor writers
- .91 Early 20th century 1901-
- 822 English drama
- 1 Early English 1066-1400
 - 11 Chester plays
 - 12 Coventry plays
 - 13 Townley plays

822.2	Pre-Elizabethan	1400-1558	
21	Heywood John	1506-65	
22	Udall, Nicholas	1505-64	
23	Bale, John	1495-1563	
.3	Elizabethan	1558-1625	
31	Greene Robert	1561-92	
32	Marlowe Christopher	1564-93	
33	Shakspeare, William	1564-1616	
34	Jonson, Ben	1574-1637	
35	Beaumont, Francis and Fletcher, John	1584-1616 1579-1625	
36	Webster, John	1582-1652	
37	Massinger, Philip	1584-1640	
38	Ford, John	1586-1639	
39	Minor writers		
.4	Post-Elizabethan	1625-1702	
41	Davenant, Sir William	1605-68	
42	Etherege, Sir George	1637-88	
43	Crowne, John	1644-99	
44	Wycherly William	1640-1715	
45	Otway, Thomas	1651-85	
46	Congreve, William	1670-1729	
47	Vanbrugh Sir John	1666-1726	
48	Farquhar, George	1678-1707	
49	Minor writers		
.5	Queen Anne	Early 18th century 1702-45	
51	Dennis John	1657-1734	
52	Southerne Thomas	1660-1746	
53	Centlivre Mrs Susannah (Freeman)	1668-1723	
54	Cibber Colley	1671-1757	
55	Rowe Nicholas	1674-1718	
56	Gay, John	1688-1732	
57	Lillo George	1693-1739	
58			
59	Minor writers		
6	Later 18th century	1745-1800	
61	Garrick David	1716-79	
62	Foote, Samuel	1721-77	
63	Colman, George, the elder	1732-94	
64	Home, John	1724-1808	
65	Cumberland Richard	1732-1811	
66	Sheridan, Richard Brinsley	1751-1816	See also 825.64
67	Inchbald Mrs Elizabeth (Simpson)	1753-1821	
68			
69	Minor writers		
.7	Early 19th century	1800-1837	
71	Baillie Joanna	1762-1851	
72	Knowles James Sheridan	1784-1862	
.8	Victorian period	1837-1900	
.91	Early 20th century	1901-	

823 English fiction

- | | | | |
|-----|--|-------------------------|-----------|
| .1 | Early English | 1066-1400 | |
| .2 | Pre-Elizabethan | 1400-1558 | |
| | More's <i>Utopia</i> | Prefer 321 07 Ideal sta | |
| .3 | Elizabethan | 1558-1625 | |
| | Lyly's <i>Euphues</i> | | |
| .4 | Post-Elizabethan | 1625-1702 | |
| .41 | Harrington James | | 1611-77 |
| .42 | Bunyan, John | | 1628-88 |
| .43 | Mackenzie, George | | 1636-91 |
| .44 | Behn, Aphra | | 1640-89 |
| .5 | Queen Anne | 1702-45 | |
| 51 | Defoe, Daniel | | 1661-1731 |
| 52 | Fielding, Henry | | 1707-54 |
| .6 | Later 18th century | 1745-1800 | |
| 61 | Richardson Samuel | | 1689-1761 |
| 62 | Sterne, Laurence | | 1713-68 |
| 63 | Smollett, Tobias George | | 1721-71 |
| 64 | Goldsmith, Oliver | | 1728-74 |
| | See also 821 64 and 824 66 | | |
| 65 | Mackenzie, Henry | | 1745-1831 |
| 66 | Arblay, Frances (Burney), madame d' | | 1752-1840 |
| 67 | | | |
| 68 | | | |
| 69 | Minor writers | | |
| .7 | Early 19th century | 1800-37 | |
| 71 | Lewis, Matthew Gregory | | 1775-1818 |
| 72 | Edgeworth Maria | | 1767-1849 |
| 73 | Scott, Sir Walter | | 1771-1832 |
| 74 | Austen Jane | | 1775-1817 |
| 75 | Porter Jane | | 1776-1850 |
| 76 | Peacock, Thomas Love | | 1785-1866 |
| 77 | Galt, John | | 1779-1839 |
| 78 | Marryat, Frederick | | 1792-1848 |
| .79 | Minor writers | | |
| .8 | Victorian period | 1837-1900 | |
| 81 | Bronte, Charlotte | | 1816-55 |
| 82 | Thackeray, William Makepeace | | 1811-63 |
| 83 | Dickens, Charles | | 1812-70 |
| 84 | Lytton Edward George Bulwer 1st baron | | 1803-73 |
| 85 | Kingsley Charles | | 1819-75 |
| 86 | Blackensfield, Benjamin Disraeli 1st earl of | | 1825 81 |
| 87 | Trollope, Anthony | | 1815-82 |
| .88 | Cross Mary Ann (Evans) Lewes (George Eliot) | | 1819-80 |
| 89 | Minor writers | | |
| .91 | Early 20th century | 1901- | |

See also 821 74

- 824 English essays
- 3 Elizabethan 1558-1625
Francis Bacon 1561-1626
- .4 Post-Elizabethan 1625-1702
John Locke 1632-1704
- .5 Queen Anne 1702-45
- 51 Shaftsbury Anthony Ashley Cooper 3d earl of 1671-1713
- 52 Addison, Joseph 1672-1719
- .53 Steele, Sir Richard 1671-1729
- 54 Budgell Eustace 1686-1737
- 55
- 56
- 57
- 58
- 59
- .6 Later 18th century 1745-1800
- 61 Moore Edward 1712-57
- 62 Kames Henry Home lord 1696-1782
- 63 Johnson, Samuel 1709-84
- 64 Hume David 1711-76 See also 192.4
- 65 Hawksworth John 1715-73
- 66 Goldsmith Oliver 1728-74
See also 821.64 and 823.64
- 67 Gibbon Edward 1737-94
- 68
- 69 Minor writers
- .7 Early 19th century 1800-37
- 71 Mackintosh Sir James 1765-1832
- 72 Smith, Sydney 1771-1845
- 73 Jeffrey, Francis lord 1773-1850
- 74 Brougham, Henry, 1st baron 1778-1868
- 75 Lamb, Charles 1775-1834
- 76 Hazlitt, William 1778-1830
- 77 Hunt Leigh 1784-1859
- 78
- 79 Minor writers
- .8 Victorian period 1837-1900
- 81 De Quincey, Thomas 1785-1859
- 82 Carlyle, Thomas 1795-1881
- 83 Macaulay, Thomas Babington, 1st baron 1800-59
- 84 Helps Sir Arthur 1817-75
- 85 Arnold Matthew 1822-88
- 86 Ruskin John 1819-1900
- 87 Pater, Walter Horatio 1839-94
- 88 Gosse, Sir Edmund William 1849-
- 89 Minor writers
- .91 Early 20th century 1901-

825 English oratory For speakers' see 808 8

Subdivided by periods like 821

- | | | | |
|-----|------------------------------------|-----------|-----------------|
| .6 | Later 18th century | 1745-1800 | |
| .61 | Chatham, William Pitt, 1st earl of | 1708-78 | |
| 62 | Burke, Edmund | 1729-97 | |
| 63 | Fox, Charles James | 1749-1806 | |
| 64 | Sheridan, Richard Brinsley | 1751-1816 | See also 822 66 |
| 65 | Grattan Henry | 1750-1820 | |
| 66 | Pitt, William | 1759-1806 | |

826 English letters

Subdivided by periods like 821

- | | | | |
|----|--|-----------|--|
| .2 | Pre-Elizabethan | 1400-1558 | |
| | Paston letters | | |
| .5 | Queen Anne | 1702-45 | |
| 51 | Montagu, Lady Mary (Pierrepont) Wortley | 1690-1762 | |
| 52 | Chesterfield, Philip Dormer Stanhope 4th earl of | 1694-1773 | |
| 53 | | | |
| .6 | Later 18th century | 1745-1800 | |
| 61 | Orford, Horace Walpole | 1717-97 | |
| 62 | " | 1720-1800 | |

827

- | | | | |
|----|--------------------|-----------|--|
| .2 | Pre-Elizabethan | 1400-1558 | |
| 21 | Barclay Alexander | 1475-1552 | |
| 3 | Elizabethan | 1558-1625 | |
| 31 | Gascoigne, George | 1537-77 | |
| 32 | Harington Sir John | 1561-1612 | |
| 33 | Hall, Joseph | 1574-1656 | |
| 34 | Marston John | 1575-1634 | |
| 35 | Donne, John | 1573-1631 | |
| 36 | | | |
| 37 | | | |
| 38 | | | |
| 39 | | | |
| .4 | Post-Elizabethan | 1625-1702 | |
| 41 | Wither, George | 1588-1667 | |
| 42 | Butler, Samuel | 1612-80 | |
| 43 | Marvell, Andrew | 1620-78 | |
| 44 | D Urfe, Thomas | 1625-1723 | |
| 45 | Oldham John | 1653-83 | |
| 46 | Brown Thomas | 1663-1704 | |
| 47 | King William | 1663-1712 | |
| 48 | Garth Sir Samuel | 1665-1719 | |
| 49 | Minor writers | | |

- 827 5 Queen Anne 1702-45
- | | | | |
|----|-----------------------|-----------|-----------------|
| 51 | Ward Edward | 1667-1731 | |
| 52 | Swift, Jonathan | 1667-1745 | |
| 53 | Mandeville Bernard de | 1670-1733 | |
| 54 | Arbuthnot John | 1675-1735 | |
| 55 | Pope, Alexander | 1688-1744 | See also 821 53 |
- .6 Later 18th century 1745-1800
- | | | | |
|----|-----------------------------|-----------|--|
| 61 | Churchill Charles | 1733-65 | |
| 62 | Amory Thomas | 1691-1788 | |
| 63 | Whitehead Paul | 1710-74 | |
| 64 | Junius <i>pseud</i> | 1679-1772 | |
| 65 | Wolcott John [Peter Pindar] | 1738 1819 | |
- .7 Early 19th century 1800-37
- | | | | |
|----|-----------------|-----------|--|
| 71 | Gifford William | 1757-1826 | |
| 72 | Hood Thomas | 1798-1845 | |
- .8 Victorian 1837-1900
- | | | | |
|----|-----------------|---------|--|
| 81 | Jerrold Douglas | 1803-57 | |
|----|-----------------|---------|--|
- .91 Early 20th century 1901-

828 English miscellany

Anecdotes and epigrams quotations etc if illustrative of any special subject (e.g. biography history science art) go with that subject. If general they go in 828 if limited to any period they take the same divisions as 821. For riddles see 398 6. Proverbs see 398 9. The same rule applies to other languages in 838 848 etc.

.99 English dialect and local literature

- 991 General questions
- 1-8 Literary forms like 811-818 e.g. 828 9912 English dialect drama
- 992 English county and local literature
- Divided like 942 as explained in note and illustrations under 818 94 e.g. 828 9929 Welsh English literature 828 99292 Welsh English drama 828 99299 Welsh English local literature divided like 942 9 e.g. 828 992992 Literature of Carmarvon 828 9929925 Carmarvon oratory 828 9929929 Merioneth literature 828 99299295 Merioneth oratory
- 993 Irish English literature
- For literature in Irish language use 891 62
- 1 8 Literary forms like 811-818 e.g. 828 9931 Irish English poetry
- 9 Irish local
- 96-99 divided as explained under 818 94 like 941 6-9 e.g. 828 99396 Ulster English literature 828 993961 Ulster English poetry 828 9939691 Antrim English literature
- 994 Scotch English literature
- For literature in Scotch language use 891 63
- 1-8 Literary forms e.g. 828 9943 Scotch English fiction
- 9 Scotch local
- 91-94 divided as explained under 818 94 like 941 1-4 e.g. 828 99491 English literature of Northern Scotland 828 9949191 English literature of Shetland
- 99 Other European English
- 993-999 divided like 943-949 as explained under 818 94 e.g. 828 994993 English literature written by Germans 828 9949931 German English poetry 828 99499391 Bavarian English literature
- 995 996 and 999 Other English literature
- Divided as explained under 818 91 like 950-960 and 999 e.g. 828 9991 Australian English literature. For English literature of North and South America see 810-819.

829 Anglo-Saxon literature

- | | | | |
|----|----------|----|-------------------------|
| .1 | Poetry | 5 | Homilies and religious |
| .2 | Cædmon | .6 | Ælfric |
| .3 | Beowulf | .7 | Alfred the Great |
| .4 | Cynewulf | .8 | Miscellaneous |
| | | .9 | Historic and biographic |

830 German literature

830 1 Philosophy 2 Compendis 3 Dictionaries 4 Essays lectures and addresses
on German literature 5 Periodicals 6 Societies 7 Study and teaching 8 Col-
lections 9 History

831 German poetry

01 Dramatic 02 Romantic and epic 03 Lyric ballads 04 Dialectic
05 Descriptive 06 Satire and humorous 07 Collections 08 History of
German poetry

.1 Before the Crusades -1150

11 *Hildebrandslied*12 *Otfried*13 *Ludwigslied*14 *Muspilli*

.2 Middle high 1150-1300

21 *Nibelungenlied*22 *Gudrun* and minor folk epics

23 Heinrich von Veldeke

-1200 See also 839 J & L & L

24 Wolfram von Eschenbach

25 Gottfried von Strassburg

26 Hartmann von Aue

1170-1220

27 Walther von der Vögelweide

1170-1230

28 Ulrich von Lichtenstein

1199-1276

29 Minor writers

.3 Period of decline 1300-1517

31 Horneck, Ottokar von

32 Hadamar von Laher

33 Hermann von Sachsenheim

-1458

34 Buheler, Hans *Die sieben weisen meister*

1414-

35 Kaspar von der Röhn *Das heldenbuch*36 *Theuerdank*37 *Die Haimonskinder*

38 Mastersingers

39 Minor writers

.4 Reformation; new high 1517-1625

41 Agnola Martin

1486-1556

42 Waldis, Burkard

1490-1558

43 Alberus, Erasmus

1500-53

44 Sachs, Hans

1494-1576

45 Ringwaldt, Bartholomäus

1530-99

46 Rollenhagen, Georg

1542-1609

47 Andrea, Johann Valentin

1586-1654

.5 Period of imitation 1625-1750

The Silesian schools

51 Opitz von Boberfeld Martin

1597-1639

52 Flemming Paul

1609-40

53 Logau Friedrich von

1604-35

54 Gerhardt, Paul

1607-76

55 Hofmannswaldau Christian Hofmann von

1618-79

56 Zesen, Philipp von

1619-89

57 Broches, Barthold Heinrich

1680-1747

58 Bodmer, Johann Jakob

1698-1783

59 Minor writers

- 831.6 Classic period 1750-1830**
 For Goethe and Schiller, see 832.6
- | | | |
|----|---------------------------------------|-----------|
| 61 | Gellert, Christian Furchtegott | 1715-69 |
| 62 | Klopstock, Friedrich Gottlieb | 1724-1803 |
| 63 | Burger, Gottfried August | 1748-94 |
| 64 | Herder, Johann Gottfried von | 1744-1803 |
| 65 | Voss, Johann Heinrich | 1751-1826 |
| 66 | Korner, Karl Theodor | 1791-1813 |
| 67 | Holderlin, Johann Christian Friedrich | 1770-1843 |
| 68 | Platen Hallermunde, August graf von | 1796-1835 |
| 69 | Minor writers | |
- .7 Postclassic period 1830-56**
- | | | |
|----|--|-----------|
| 71 | Arndt, Ernst Montz | 1769-1860 |
| 72 | Eichendorff, Joseph freiherr von | 1788-1857 |
| 73 | Uhland, Johann Ludwig | 1787-1862 |
| 74 | Ruckert, Friedrich | 1789-1866 |
| 75 | Heine, Heinrich | 1799-1856 |
| 76 | Niembsch von Strehlenau, Nikolaus | 1802-50 |
| 77 | Auersperg, Anton Alexander, graf von [Anastasius Grun] | 1806-81 |
| 78 | Freiligrath, Ferdinand | 1810-76 |
| 79 | Minor writers | |
- .8 Later 19th century 1856-1900**
- | | | |
|----|------------------------------|-----------|
| 81 | Schefer, Leopold | 1784-1862 |
| 82 | Kinkel, Johann Gottfried | 1815-82 |
| 83 | Gettel, Emanuel | 1815-84 |
| 84 | Bodenstedt, Friedrich Martin | 1819-92 |
| 85 | | |
| 86 | | |
| 87 | | |
| 88 | | |
| 89 | Minor writers | |
- .91 Early 20th century 1901-**
- 832 German drama**
- .5 Period of imitation 1625-1750**
- | | | |
|----|--|-----------|
| 51 | Gryphus, Andreas | 1616-64 |
| 52 | Lohenstein, Daniel Casper | 1635-83 |
| 53 | Weise, Christian | 1642-1708 |
| 54 | Gottsched, Johann Christoph | 1700-76 |
| 55 | Gottsched, Luise Adelgunde Victorie (Culmus) | 1713-62 |
- .6 Classic period 1750-1830**
- | | | |
|----|--|-----------|
| 61 | Lessing, Gotthold Ephraim | 1729-81 |
| 62 | Goethe, Johann Wolfgang von | 1749-1832 |
| 63 | Schiller, Johann Christoph Friedrich | 1759-1805 |
| 64 | Klinger, Friedrich Maximilian | 1753-1831 |
| 65 | Island, August Wilhelm | 1759-1814 |
| 66 | Kotzebue, August Friedrich Ferdinand von | 1761-1819 |
| 67 | Werner, Friedrich Ludwig Zacharias | 1768-1823 |
| 68 | Kleist, Heinrich Bernt Wilhelm von | 1777-1811 |
| 69 | Minor writers | |

LITERATURE

832.7 Postclassic period 1830-56

.71	Grabbe, Christian Dietrich	1801-36
72	Griepenkerl, Wolfgang Robert	1810-36
73	Grillparzer, Franz	1791-1872
74	Burch Pfeiffer, Charlotte	1800-68
75	Munch Bellinghausen Eligius Franz Joseph [Friedrich Halm]	1806-66
76	Laube Heinrich	1806-84
77	Hebbel Friedrich	1815-63
78	Gutzkow, Karl Ferdinand	1811-78
.79	Minor writers	

.8 Later 19th century 1856-1900

81	Benedix, Julius Roderich	1811-73
82	Mosenthal, Salomon Hermann	1821-77
83	Brachvogel, Albert Emil	1824-78
84	Gottschall, Karl Rudolph	1823-1909
85	Lindau, Paul	1839-
89	Minor writers	

91 Early 20th century 1901-

833 German fiction

.5 Period of imitation 1625-1750

51	Buchholtz, Andrew Heinrich	1607-71
52	Grimmelshausen Hans Jakob Christoffel von	1625-76
53	Anselm Heinrich	1653-97
54	<i>Robinsonaden</i>	
55	<i>Der Neue Amadis</i>	

.6 Classic period 1750-1830

61	Wieland, Christoph Martin	1733-1813
62	Richter, Jean Paul Friedrich	1763-1825
63	Hardenberg, Friedrich von [Novalis]	1772-1801
64	Hoffmann, Ernst Theodor Wilhelm	1776-1822
65	La Motte Fouqué Friedrich H. C.	1777-1843
66	Arnun, Ludwig Achim von	1781-1831
67	Hauff Wilhelm	1802-27
68	Chamisso, Adelbert von	1781-1838
69	Minor writers	

.7 Postclassic period 1830-56

71	Zschokke Johann Heinrich Daniel	1771-1848
72	Brentano Clemens	1778-1842
73	Tieck, Ludwig	1773-1853
74	Postl, Karl [Charles Sealsfield]	1793-1864
75	Häring, Wilhelm [Wilhelm Alexis]	1798-1871
76	Hahn Hahn Ida gräfin von	1803-80
77	Gerstacker, Friedrich	1816-72
78	Hackländer, Friedrich Wilhelm	1816-77
79	Minor writers	

- | | | | | |
|-----|----|-----------------------------|-----------|-----------|
| 833 | 8 | Later 19th century | 1856-1900 | |
| | 81 | Auerbach, Berthold | | 1815-82 |
| | 82 | Freitag, Gustav | | 1816-95 |
| | 83 | Scheffel, Joseph Viktor von | | 1826-96 |
| | 84 | Spielhagen Friedrich | | 1829-1911 |
| | 85 | Heyse Paul Johann Ludwig | | 1830-1914 |
| | 86 | Ebers, Georg | | 1837-98 |
| | 89 | Minor writers | | |
| .91 | | Early 20th century | 1901- | |
-
- | | | | | |
|-----|--|------------------------------------|---|-----------|
| 834 | | German essays | Subdivided by periods like 831 | |
| 835 | | German oratory | " " | |
| 836 | | German letters | " " | |
| 837 | | German satire and humor | | |
| .2 | | • Middle high: minnesingers | 1150-1300 | |
| 21 | | [Stricker, Der] | <i>Der Pfaffe Amis</i> and <i>Beispiele</i> | |
| 22 | | <i>Salomon und Morolf</i> | | |
| .3 | | Period of decline | 1300-1517 | |
| 31 | | <i>Reineke Vos</i> | See also 839 3171 | |
| 32 | | Brant, Sebastian | | 1458-1521 |
| .4 | | Reformation: new high | 1517-1625 | |
| 41 | | Murner, Thomas [Tyll Eulenspiegel] | | 1475-1537 |
| 42 | | Fischart, Johann | | 1550-89 |
| .5 | | Period of imitation | 1625-1750 | |
| 51 | | Moscherosch, Johann Michael | | 1601-69 |
| 52 | | Rachel Joachim | | 1618-69 |
| 53 | | Wernicke, Christian | | 1660-1720 |
| 54 | | Liscow, Christian Ludwig | | 1701-60 |
| .6 | | Classic period | 1750-1830 | |
| 61 | | Rabener, Gottlieb Wilhelm | | 1714-71 |
| 62 | | Blumauer, Aloys | | 1755-98 |
-
- | | | | | |
|-----|--|-------------------|--|--|
| 838 | | German miscellany | | |
| | | See 828 note | | |

839 Other Teutonic literatures

Subdivided by form, poetry drama, etc like 830

- .1 Western Germanic literatures in general**
- .2 Frisian Old Saxon**
- .3 Netherlandish**
- .31 Dutch literature**
- .311 Dutch poetry**
- 1 Middle ages** 1200-1450
 (2 Henricus van Veldeke 1200 see 831 23) 3 Jan van Brabant 1250-94
 4 Melis Stoke 1310 5 Dirck Potter 1428
- 2 Chambers of rhetoric** 1450-1600
 2 Anna Bijns 1500 4 Cornelis Everaert 1550 6 Dirk Volkertszoon
 Coornhert 1522-90 9 Minor writers
- 3 Period of the Republic** 1600-1700
 1 Jacob Cats 1577-1660 2 Joost van den Vondel 1587 1679 3 Maria
 Tesselschade Visscher 1594-1649 4 Constantijn Huygens 1596 1647
 5 Reyer Anso 1626-69 6 Geraert Brandt 1626 85 7 Jan
 Antoniszoon van der Goez (Antonides) 1647-84 9 Minor writers
- 4 Poetic societies** 1700-1800
 1 Lucas Rotgans 1654-1710 2 Hubert Corneliszoon Poot 1689-1733
 3 Arnold Hoogvliet 1687-1763 4 Sybrand Feistama 1694-1758
 5 Willem van Haren 1710-68 6 Jacob Bellamy 1757-86
 7 Hieronymus van Alphen 1746-1803 9 Minor writers
- 5 Modern period** 1800-
 1 Willem Bilderdijk 1756-1831 2 Jan Frederik Helmers 1767-1813
 3 Cornelis Loois 1765-1834 4 Hendrik Tollens 1780-1856 5 Isaac
 da Costa 1798-1860 9 Minor writers
- .312 Dutch drama**
- 2 Period of the Republic** 1600-1700
 1 Gerb and Adriaenszoon Bredero 1585-1618 2 Corneliszoon Hooft
 1581-1647 3 Samuel Costa 1580-1650 4 Jan Vos 1620-67
 6 Joachim Oudaan 1628-92 9 Other
- 4 Poetic societies** 1700-1800
 1 Pieter Langendijk 1683 1756 2 Andries Pels 3 Balthasar Huyde
 coper 1692-1778 4 Onno Zwier van Haren 1713-79 5 Jan Nomaz
 1713-1803 9 Minor writers
- 5 Modern period** 1800-
 1 Samuel Iperuszoon Wisel us 1769-1845 2 Pieter Theodoor Helvetius
 van den Bergh 1799-1873 3 Hendrik Jan Schimmell 1825-1906
- .313 Dutch fiction**
- 4 Poetic societies** 1700-1800
 1 Elisabeth Bekker Wolff 1738-1804 2 Agatha Deken 1741-1804
 3 Rhijnvis Feith 1753 1824
- 5 Modern period** 1800-
 1 Adriaan Loosjes 1761-1818 2 Jacob Vosmaer 1783-1834 3 Jan
 Frederik Olthmans 1800-54 4 Jacob van Lennep 1803-68
 6 Anna Louisa Geertruida Bosboom Toussaint 1812 86
- .314 Dutch essays**
- 4 Poetic societies** 1700-1800
 Justus van Effen 1684-1735
- 5 Modern period** 1800-
 1 Johannes Henricus van der Palm 1763-1840 2 Reimer Cornelis
 Bakhuizen van den Brink 1810-65 3 Everhardus Johannes Potgieter
 1808-75 4 Nicolaas Beets 1814-1903 5 Coenraad Busken Huët
 1826-86
- 317 Dutch satire and humor**
- 1 Middle ages** 1200-1450
 Remaert (van den vos Rennaerde) see 837 31
- 4 Poetic societies** 1700-1800
 Arend Simoniszoon Fokke 1755-1822

839 318

Dutch miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge
In classification, books are placed with their subjects, theology, history, etc.

- 1 Middle ages 1200-1450
Jan van Boendale (Jan de Clerc) *Chronicles*, 1280-1365
4 Poetic societies 1700-1800
Simon Stil *History*, 1731-1804. Jan Wagenaar, *History* 1709-73

.32 Flemish literature

Divide by form and period like 839 31 Dutch literature

.36 Afrikaans

Divide by form like 839 31 Dutch literature

.4 Low German Platt Deutsch

.5 Scandinavian

.6 Old Norse Icelandic Faroese

.7 Swedish literature

.71 Swedish poetry

- 711 Middle ages 1200-1520
1 Nicolaus Hermanns 1391 2 Bishop Tomas 1443 3 Ericus Olai
1486 4 Ballads (Folkvisor)
712 Reformation 1520-1640
1 Olaus Petri 1496-1552 2 Laurentius Petri 1499-1573
713 Age of Stjernhjelm 1640-1740
1 Georg Stjernhjelm 1598-1672 2 Lars Johansson (Luridör) 1640-74
3 Haquin Spigel 1645-1714 4 Israel Holmström 1660-1708 5 Ganno
Eurelius Dahlstjerna 1661-1709 6 Johan Runius 1679-1713 7 Jacob
Frese 1691-1729 8 Samuel von Triewald 1688-1713 9 Minor writers
714 Age of Dalin 1740-80
1 Olof Carenius 1758 2 Olof von Dalin 1708-63 3 Hedvig Charlotta
Nordenflycht 1718-63 4 Anders Odel 1718-73 5 Gustaf Filip
Creutz 1729-85 6 Gustaf Fredrik Gyllenborg 1731-1808 7 Olof
Bergklint 1733-1805 9 Minor writers
715 Age of Gustavus 1780-1800
1 Karl Mikael Bellman 1740-1795 2 Johan Henrik Kellgren 1755-93
3 Bengt Ludaer 1757-93 4 Johan Gabriel Oxenstjerna 1750-1818
5 Tomas Thorild 1759-1803 6 Anna Maria Lenngren 1754-1817
7 Karl Gustaf af Leopold 1756-1829 8 Frans Mikael Franzén 1772-1847
9 Minor writers
716 Modern period 1800-
1 Per Henrik Ling 1776-1839 2 Johan Olof Wallin 1779-1839 3 Esaias
Tegnér 1782-1846 4 Erik Johan Stagnelius 1793-1823 5 Per Daniel
Amadeus Atterbom 1790-1855 6 Karl Jonas Ludvig Almqvist 1793-
1866 7 Johan Ludvig Runeberg 1804-77 8 Karl Vilhelm Böttiger
1807-79 9 Minor writers
72 Swedish drama
722 Reformation 1520-1640
1 Johan Messenius 1579-1637 2 Magnus Olaf Asterophorus -1647
3 Andreas Johannis Prytz 1590-1653
723 Age of Stjernhjelm 1640-1740
Isak Birk -1701
725 Age of Gustavus 1780-1800
1 Karl Israel Hallman 1712-1800 2 Gustaf 3 (king) 1746-93
3 Olof Kexel 1743-96 4 Karl Fvallsön 1756-1806
726 Modern period 1800-
1 Johan Börjesson 1790-1866 2 Bernhard von Beskow 1796-1868
3 August Teodor Blanche 1811-68 4 Johan Kristofer Jolin 1818-64
5 Frans Hedberg 1828-1908 6 Per Johan Edvard Backström
1841-86
73 Swedish fiction
734 Age of Dalin 1740-1780
1 Jakob Henrik Mörk 1714-63 2 Jakob Vallenberg 1746-78
736 Modern period 1800-
1 Sofia Margareta von Knorring 1797-1848 2 Magnus Jakob Cru
senstolpe 1795-1865 3 Fredrika Bremer 1801-65 4 Karl Anton Wet
terbergh (Onkel Adam) 1804-89 5 Emile Fyggare Carlin 1807-91
6 Zakris Topelius 1818-91 7 Viktor Rydberg 1829-95 9 Minor
writers

- 839 74 Swedish essays
746 Modern period 1800-
1 Benjamin Karl Henrik Höljer 1767 1812 2 Lorenzo Hammarsköld
1785 1827 3 Bernhard Elus Malmström 1816-65 4 Karl Julius
Lénström 1811-93 5 Gustaf Håkan Jordan Ljunggren 1823-1905
6 Karl Rupert Nyblom 1832-1907
- 77 Swedish satire and humor
776 Modern period 1800-
1 Johan Anders Wadman 1777 1837 2 Erik Sjöberg (Vitalis) 1794
1828 3 Kristian Enk Pahlerantz 1790-1866 4 Vilhelm August
Detlof von Braunn 1813-60 5 Gunnar Wennerberg 1817 1901
- 78 Swedish miscellany
The subdivisions of 8 show the leading writers in other branches of knowl-
edge. In classification books are placed with their subjects theology
history etc.
- 781 Middle ages 1200-1520
Canon Mattias Båbe *1 assle on* 1350 Peder Minsaga *Encyclopedia*
1534
- 782 Reformation 1520-1640
1 Peder Andersson Svart *H story* 1562 2 Erik Göransson Tegel
History 1580-1636 3 Ægidius Girs, *H story* 1580-1639 4 Gustavus
Adolphus (king) *History* 1594 1632
- 783 Age of Stjernhjelm 1640-1740
1 Olof Rudbeck *Med c n* 1630-1702 2 Urban Hårne 1641 1721
3 Johan Peringsköld *History* 1624 1720 4 Anders Rydellus *Philosophy*
1671-1738 5 Anders Celsius *Astronomy* 1701 44 6 Emanuel
Svedenborg *Theology* 1688-1772
- 784 Age of Dahl 1740-1780
1 Karl Gustaf Tessin, *History* 1695 1770 2 Karl von Linné, *Botany*
1707 78 3 Johan Ihre *Philology* 1707-80 4 Sven Lagerbring
History 1707-87 5 Anders Johan von Höpken, *H story* 1712-80
6 Olof Celsius *History* 1716-94 7 Anders af Bothé *H story* 1724
90 8 Torbern Olof Bergman *Chemistry* 1735 84 9 Karl Vilhelm
Scheele *Chemistry* 1742-86
- 786 Modern period 1800-
1 Enk Gustaf Gejer *H story* 1783 1847 2 Anders Magnus Strindholm
History 1786-1862 3 Anders Fryxell *H story* 1795 1881 4 Frederik
Ferdinand Carlsson *H story* 1811-87
- 8 Danish and Norwegian literature
- 81 Danish literature
- 811 Danish poetry
- 1 Middle ages 1100-1500
1 Anders Sunesen 2 Ballads (Kjæmpeviser)
- 2 Reformation 1500-1560
Hans Tavsén 1494 1561
- 3 Learned period 1560-1700
1 Anders Arrebo 1587 1637 2 Anders Bording 1619-77 3 Peder
Syv 1631 1702 4 Thomas Kungo 1634 1703 5 Søren Torkelsen
1661 8 Jacob Vorn 1642-93
- 4 Age of Holberg 1700-1750
1 Jørgen Sorterup 1662 1723 2 Tøger Roenberg 1656-1742 3 Kristian
Følster 1690-1752 4 Hans Adolph Brorson 1694 1764 5 Ambrosius
Stub 1705 38 6 Kristian Frederik Vadskjær 1712-79
- 5 Period of enlightenment 1750-1800
1 Kns ian Braunmann Tullin 1728-65 2 Johannes Evald 1743-81
4 Edvard Storm 1749-94 5 Kristen Henniksen Pram 1756-1827
6 Jens Bargesen 1764 1826 7 Knud Lyne Rahbek 1760-1830
8 Malte Konrad Bruun 1775 1826 9 Minor writers
- 6 Modern period 1800-
1 Adam Gottlob Oehlenschläger 1779-1850 2 Bernhard Severin Inge-
mann 1789-1862 3 Nicolai Frederik Severin Grundtvig 1783 1872
4 Johannes Carsten Hauch 1790-1871 6 Ludvig Bødcher 1793 1874
7 Frederik Paludan-Müller 1809-76 8 Carl Ploug 1813-94 9 Minor
writers

839 812

Danish drama

- 2 **Learned period** 1500-1700
 1 Heron mus Justesen Rauch 1539 1607 2 Hans Kristensen Sthen 1544 1603 3 Peder Jensen Hegeland 1542 1614 4 Hans Thomsen Stage -1628 5 Jens Lönberg 1663 1700
- 4 **Age of Holberg** 1700-1750
 1 Ludv g Holberg 1684 1754
- 5 **Period of enlightenment** 1750-1800
 1 Charlotte Dorothea Behl 1731 83 3 Ole Johan Samsoe 1750-96
 4 Enevold Palsen 1755 1803 5 Thomas Thaarup 1749-1821 6 Jens an Lev n Sand r 1756 1819 7 Olaf Krist an Olufsen 1763 1827
 8 Peter Andreas Heiberg 1758 1841 9 Minor writers
- 6 **Modern period** 1800-
 1 Casper Johannes Boye 1791 1855 2 Johan Ludv g Heiberg 1791 1860 3 Henrik Hertz 1793 1870 4 Thomas Overskou 1798 1873
 5 Chr st an Knud Frederik Molbech 1821 88

813

Danish fiction

- 6 **Modern period** 1800
 1 Thomas ne Christ ne Gyllembourg Ehrensward 1773 1856 2 Steen Steen en Blicher 1782 1843 3 Chr st an W nther 1796 1876 4 Hans Christian Andersen 1805 75 5 Meyer Aaron Goldschmidt 1819 87 6 Holger Drachmann 1846 1903

814

Danish essays

- 5 **Period of enlightenment** 1750-1800
 Rasmus Nyerup 1759-1829
- 6 **Modern period** 1800-
 1 N els Mathias Petersen 1781 1862 2 Søren Aaby Kierkegaard 1813 55 6 Georg Morris Cohen Brandes 1842 1927

817

Danish satire and humor

- 5 **Period of enlightenment** 1750 1800
 1 Peder Magnus Tro el 1743-96 2 Peder Kofod Tro el 1754 84
 3 Thomas Kr stoffer Bruun 1750-1834

818

Danish miscellany

- The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects theology history etc
- 1 **Middle ages** 1100-1500
 1 Saxo (Longus) Grammaticus History 1208 2 Svend Aagesen History 1200-1500
- 2 **Reformation** 1500-1550
 1 Krist ern Pedersen (Father of Danish literature) 1480-1554 2 Povel E esen Sermons 1480- 3 Hans Mikkelsen Bible translation 1532
 4 Peder Plade (Palladius) 1503-60 5 Henrik Sm th Medicin -1563
- 3 **Learned period** 1550-1700
 History Hans Svaning 1508 1584 Anders Sørensen Vedel 1542 1616
 Arild Hvitfeld 1549-1609 Klaus Lysskander 1558 1623 Ole Worm 1588 1654 Peder Resen 1625 84
 Theology N els Hemmingsen 1523 1600 Holger Rosenkrantz 1574 1642 Jerper Raynussen Brochmand 1585 1652
 Science Tyge Brahe Astronomy 1546-1601 Kaspar Bartholin Medicine 1583 1629 Thomas Bartholin Anatomy 1616 80 Ole Borch Medicine 1626-90 N els Stensen Anatomy 1638 86 Ole Rømer Astronomy 1644 1710
- 4 **Age of Holberg** 1700-1750
 1 Erik Pontoppidan History 1698 1764 2 Jacob Langebek History 1710-75 3 Frederik Krist an Elschov Education and Philology 1725 50 5 Peder Frederik Suhm, History 1728-93

82

Norwegian literature

- Subdivided when needed by form and period like 839 81 Danish literature
- 8216 **Modern Norwegian poetry** 1800-
 Hen z Wergeland 1808 45
- 8226 **Modern Norwegian drama** 1800-
 Henrik Ibsen 1828 1906
- 8236 **Modern Norwegian fiction** 1800-
 Bjørnstjerne Bjørnson 1832 1910
- 8245 **Modern Norwegian essays** 1800-
 Johan Sebastian Cammermeyer Welhaven 1807-73

.9

Gothic

840 French literature

- 840 1 Philosophy 2 Compendis 3 Dictionaries 4 Essays lectures and
addresses on French literature 5 Periodicals 6 Societies 7 Study and teaching
8 Collections 9 History

841 French poetry

- 01 Dramatic 02 Romantic and epic 03 Lyric ballads 04 Didactic
05 Descriptive 06 Satiric and humorous 07 Collections 08 History of
French poetry

- 1 Early French 842 1400
11 Chanson de geste *Cl a so i de Roland*
12 Wace Robert
13 Marie de France
14 Chrestien de Troyes 1191
15 Quesnes de Bethune 1228
16 Thibaut 4 comte de Champagne 1201 53
17 Rutebeuf 1230—
18 Roman de la rose
Guillaume de Lorris 1195 1260 Jean de Meung 1280—1320
19 Minor poets
2 Transition period 1400—1500
21 Chartier Alain 1386—1458
22 Orléans Charles duc d 1391 1465
23 Coquillart Guillaume 1421 1510
24 Baude Henri 1430—95
25 Villon François 1431 85
26
27
28
29 Minor poets
3 Renaissance 1500—1600
31 Daurat Jean 1510—88
32 Du Bellay Joachim 1524—60
33 Belleau Remy 1528 77
34 Ronsard Pierre de 1524 85
35 Thiard Pontus d 1521 1605
36 Baif Jean Antoine de 1532 89
37 Du Bartas Guillaume de Saluste 1544—90
38 Desportes Philippe 1546—1606
39 Minor poets
4 Classic period 1600—1715
41 Malherbe François de 1555 1628
42 Maynard François 1582 1646
43 Racan Honorat de Bueil marquis de 1589 1670
44 Chapelain Jean 1595 1674
45 La Fontaine Jean de 1621—95
46 D'houll'vres Antoinette (du L'gier de la Gard-)
Madame 1637—94
47 Chaulieu Guillaume Amfrye de 1639—1720
48
49 Minor poets

842	7	Constitutional monarchy	1815-48	
	71	Soumet Alexandre		1788 1845
	72	Delavigne Jean François Casimir		1793-1843 See 841 72
	73	Scribe Augustin Eugène		1791-1861
	74	Ancelot Jacques Arsène François Polycarpe		1794 1864
	75	Vigny Alfred Victor comte de		1799-1863 See 841 76
	76	Musset Louis Charles Alfred de		1810 57 See 841 77
	77	Dumas, Alexandre, the elder		1806 70 See 843 76
	78	Hugo, Victor Marie, comte		1802 85
		See also 841 78 and 843 78		
	79	Minor dramatists		
8		Later 19th century	1848 1900	
	81	Labiche Eugène Marin		1815-88
	82	Ponsard François		1824-67
	83	Aug er Gu illaume Victor Émile		1822 89
	84	Dumas Alexandre fils		1824-95
	85	Born er Henri de		1825 1901
	86	Sardou Victor en		1831 1908
	87	Pailleron Édouard		1834-99
	88	Coppée Franc s Édouard Joachim		1842 1908 See 841 85
	89	Minor dramat sts		
91		Early 20th century	1901-	
843		French fiction		
	2	Transition period	1400-1500	
	21	Christine de Pisan		1363 1431
	22	Jean de Tuum		
	23	La Sale Antoine de		1398 1462
	24	Chastelain Georges		1403-75
	25			
	26			
	27			
	28			
	29	Minor writers		
	3	Renaissance	1500-1600	
	31	Marguerite de Navarre		1492 1549
	32	Desperriers Bonaventure		1500-44
	33	Herberay Nicolas d		-1552
	34	Du Faul Noël		-1585
	35	Bouchet Guillaume		1526-1606
	36	Beroalde de Verville François		1558 1612
	37			
	38			
	39	Minor writers		
	4	Classic period	1600-1715	
	41	Urfé Honoré d		1568 1625
	42	Gomberv lle Marin Le Roy de		1600-47
	43	La Calprenède Gauthi r de Costes de		1602-63
	44	Scudéry Georges de		1601-67
	45	Scudéry Madeleine de		1607-1701
	46	Cyrano de B rgerac Savimien		1620-55
	47	Perrault Charles		1628 1703
	48	Lafayette Marie Madeleine Pioche de la Vergne comtesse de		1634-93
	49	Minor writers		

- 843 5 18th century 1715-89**
- | | | |
|----|---|----------------------|
| 51 | Le Sage Alain René | 1668-1747 |
| 52 | Marivaux Pierre Carlet de Chamblain de | 1688 1763 See 842 54 |
| 53 | Prévost d'Exiles Antoine François | 1697-1763 |
| 54 | Voltaire, François Marie Arouet de | 1694-1778 See 842 55 |
| 55 | Crébillon Claude Prosper Jolyot de fils | 1707-77 |
| 56 | Rousseau, Jean Jacques | 1712-78 |
| 57 | Restif de la Bretonne Nicolas Edme | 1734-1806 |
| 58 | Florian Jean Pierre Claris de | 1755-94 |
| 59 | Minor writers | |
- .6 Revolution and empire 1789-1815**
- | | | |
|----|---|-----------|
| 61 | St Pierre Jacques Henri Bernard n de | 1737-1814 |
| 62 | Staël Holstein, Anne Louise Germane (Necker),
baronne de | 1766-1817 |
| 63 | Constant de Rebecque Henri Benjam n | 1767-1830 |
| 64 | Maistre Xavier de | 1763-1852 |
| 65 | Chateaubriand François Auguste René vicomte de | 1768-1848 |
| 66 | | |
| 67 | | |
| 68 | | |
| 69 | Minor writers | |
- .7 Constitutional monarchy 1815 48**
- | | | |
|----|---------------------------------------|--------------------|
| 71 | Beyle Marie Henri (d- Stendhal) | 1783 1842 |
| 72 | Nodier Charles | 1790-1844 |
| 73 | Balzac, Honore de | 1799 1850 |
| 74 | Sue Marie Joseph <i>called</i> Eugène | 1804-57 |
| 75 | Souvestre Émile | 1806-54 |
| 76 | Dumas, Alexandre, the elder | 1806-70 See 842 77 |
| 77 | Gautier Théophile | 1811-72 |
| 78 | Hugo, Victor Marie, comte | 1802-85 |
| | See also 841 78 and 842 78 | |
| 79 | Minor writers | |
- 8 Later 19th century 1848-1900**
- | | | |
|----|--|--------------------|
| 81 | Mérimée Prosper | 1803-70 |
| 82 | Dudevant, Amantine Lucile Aurora Dupin
[George Sand] | 1804-76 |
| 83 | Feuillet Octave | 1822-90 |
| 84 | Flaubert Gustave | 1821-81 |
| 85 | Erckmann Chatrian { Erckmann Émile
Chatrian Alexandre | 1822-99
1826-90 |
| 86 | About Edmond François Valentin | 1828 83 |
| 87 | Cherbuliez Victo | 1829-93 |
| 88 | Daudet Alphonse | 1840-97 |
| 89 | Minor writers | |
- 91 Early 20th century 1901-**
- 844 French essays**
- | | | |
|----|---|-----------|
| .3 | Renaissance 1500-1600 | |
| 31 | Montaigne, Michel Eyquem de | 1533-92 |
| 4 | Classic period 1600-1715 | |
| 41 | Du Vair Guillaume | 1556-1621 |
| 42 | Saint Évremond, Charles de Marguetel de Saint
Denis de | 1613-1703 |

- 844 5 18th century 1715-89
- 51 Fontenelle, Bernard le Bovier de 1657-1757
- 52 Montesquieu, Charles le Secondat, baron de 1689-1755
- 53 Alembert, Jean le Rond d 1717-83
- .6 Revolution and empire 1789-1815
- 61 La Harpe, Jean François de 1739-1803 See 842 63
- 62 Joubert Joseph 1754-1824
- 63 Courier de Méré Paul Louis 1772-1825
- 64 Senancour, Étienne Pivert de 1770-1846
- 7 Constitutional monarchy 1815-48
- 71 La Mennais Hugues Félicité Robert de 1782-1854
- 72 Villemain, Abel François 1790-1870
- 73 Planche, Jean Baptiste Gustave 1808-57
- 74 Sainte Beuve, Charles Augustin 1804-69
- 75 Saint Marc Girardin 1801-73
- 76 Janin, Jules Gabriel 1804-74
- 77 Nisard Jean Marie Napoléon Désiré 1806-88
- .8 Later 19th century 1848-1900
- 81 Quinet Edgar 1803-75
- 82 Renan Ernest 1823-92
- 83 Taine Hippolyte Adolphe 1828-93
- .91 Early 20th century 1901-
- 845 French oratory Subdivided by periods like 841
- 846 French letters Subdivided by periods like 841
- 847 French satire and humor
- 1 Early French 842-1400
- 11 Guyot de Provins
- 12 *Roman du Renard* See 837 31 and 839 1171
- 13 Deschamps Eustache 1320-1400
- 3 Renaissance 1500 1600
- 31 Marot Clément 1495-1544
- 32 Rabelais, François 1495 1553
- 33 *La Satyre Menippée* 1594
- 34 Aubigné Théodore Agrippa d 1550-1630
- 35 Regnier, Mathurin 1573-1613
- 4 Classic period 1600-1715
- 41 Vauvray Théophile de 1590-1626
- 42 Saint Amant Marc Antoine Gérard 1594-1661
- 43 Scarron Paul 1610-60
- 44 Benserade Isaac de 1612-91
- 45 Furetière, Antoine 1620-88
- 46 Bouleau Despréaux, Nicolas 1636-1711
- 47 Regnard Jean François 1655-1709
- 5 18th century 1715-89
- 51 Gresset, Jean Baptiste Louis 1709-77
- 52 Gilbert Nicolas Joseph Laurent 1751-80
- .7 Constitutional monarchy 1815-48
- 71 Barthélemy August Marseille 1796-1867
- 72 Barbier Henri Auguste 1805-82
- 848 French miscellany Subdivided by periods like 841

849 Provençal literature

- 1 Provençal poetry
- 11 1st period 900-1100
Poetry in hands of clergy No folk poetry preserved Form mainly epic
Language not yet fixed Country under rule of counts nominally subject to
emperor really independent til 1486 then reunited to France
- 111 Epic poetry
Boethius
- 112 Lyric poetry
- 119 Minor poetry D dactyl
- 12 Golden age 1100-1300
Poets mainly knights but after 1250 almost exclusively burghers Lyric most
important
- 121 Romances of chivalry
Girart de Rossilho
- 122 Historical poetry
Croisade contre les Albigeois
- 123 Romans d'aventures
Flamenca
- 124 Lyric poetry
- 125 Bernart de Ventadorn flourished about 1140-95
- 126 Born Bertran de " " 1180-95
- 127 Arnaut Daniel " " 1180-1200
- 128 Giraut de Bornelh " " 1175-1220
- 129 Minor poetry
Nearly 500 poets named besides anonymous poems Form prevails over
content great variety of poetic forms These lyric poets are the real
Troubadours
- 13 Aftermath 1300-1500
Downfall of language and literature owing to lack of content and to political
and social causes specially the crusade against the Albigenses
- 131 Poets of school of Toulouse
Arnaut Vidal first recipient of the Golden Violet 1324 Poetry artificial and
craft. Las Leys d'Amors is the code of poetic laws by Guilhem Molmier
chancellor of Consistory de la gaya sciensa established at Toulouse 1324
First prize a golden violet When in danger of perishing consistory revived
in 1484 and poetic exercises styled Jeux floraux
- 132 La Noble Leycion
Religious poetry of Waldenses
- 139 Minor poetry
- 14 Decadence 1500-1900
Provençal sinks to position of a dialect despite fitful attempts to revive it the
most recent that connected with publication of *L. Provençalo* 1852
- 141 Goudouli Pierre de 1579-1649
- 142 Despourrins Cyprien 1698-1755
- 143 Jasmin Jacques 1798-1864
- 144 Roumanille Joseph 1818-91
- 145 Aubanel Jos Marie J Baptiste Théodore 1829-86
- 146 Mistral Frédéric 1830-1914
- 149 Minor poetry
- 15 20th century — 1901-

849 9

Catalan literature

91

Catalan poetry

912

1st period

1200-1250

Catalonia before 1137 ruled by French counts then united to Aragon. Language is closely allied to Provençal in which first poets wrote. Mass scattered few as yet printed. Literature begins with James I (1213-76) who made Catalan the state language.

For Ramon Muntaner see 849 9813

1 Ramon Lull 1225-1315 2 Febrer 1250 9 Minor poets

912

2d period

1350-1450

Imitation of Neo-Provençal French and Italian especially of Dante. Petrarch and Boccaccio. Some flashes of originality. Fra Rocaberti. Imitation of Dante.

913

Age of perfection

1450-

From 16th century Catalan literature merged in Spanish tho some writers still employ idiom, e.g. Balaguer.

1 March, Ausias -1460 greatest of Catalan poets 2 Fenollar Bernat

3 Jacme Roig (satiric) 4 Farrer 5 Serafi 6 Pujol 7 Garcia

9 Minor poets

93

Catalan fiction

933

Age of perfection

1450-

Joanet Martorell ~1400 *Tirant lo Blanch* a chivalric romance

98

Miscellany

981

1st period

1200-1250

Prose superior to poetry. Chronicles of great importance culminating in Muntaner.

1 James I (The Conqueror) 1213-76 2 Desclot Bernardo 3 Muntaner

Ramon 1265-1340 4 Ximenes 9 Minor authors

982

2d period

1350-1450

Prose resists foreign influences better than poetry. Many philosophical and theological writings besides historical works.

1 Tomich 2 Turrell 9 Minor writers

850 Italian literature

850 1 Philosophy 2 Compendis 3 Dictionaries 4 Essays, lectures and
addresses on Italian literature 5 Periodicals 6 Societies 7 Study and
teaching 8 Collections 9 History

851 Italian poetry

01 Dramatic 02 Romantic and epic 03 Lyric ballads 04 Dialectic
05 Descriptive 06 Satiric and humorous 07 Collections 08 History

.1 Early Italian Age of Dante -1375

To death of Boccaccio 1375

- | | | |
|----|-----------------------|-----------|
| 11 | Protonotario, Stefano | -1250 |
| 12 | Arezzo, Guittone d' | -1294 |
| 13 | Guinicelli, Guido | -1276 |
| 14 | Cavalcanti, Guido | 1260-1300 |
| 15 | Alighieri, Dante | 1265-1321 |
| 16 | Pistoia, Cino da | 1270-1336 |
| 17 | Uberti, Fazio degli | -1369 |
| 18 | Petrarca, Francesco | 1304-74 |
| 19 | Minor poets | |

.2 Period of classic learning 1375-1492

From death of Boccaccio 1375 to death of Lorenzo il Magnifico 1492

- | | | |
|----|------------------------------------|--------------------|
| 21 | Frezzi, Fedengo | -1416 |
| 22 | Bojardo, Matteo | 1430-94 |
| 23 | Medici, Lorenzo dei (il Magnifico) | 1448-92 |
| 24 | Poliziano, Angelo | 1454-94 See 852 12 |
| 25 | Benivieni, Girolamo | 1453-1542 |
| 26 | Sannazzaro, Jacopo | 1458-1530 |
| 29 | Minor poets | |

.3 Age of Leo the Tenth 1492-1542

From death of Lorenzo il Magnifico 1492 to convocation of council of Trent 1542

- | | | |
|----|-----------------------|---------------------|
| 31 | Bembo, Pietro | 1470-1517 |
| 32 | Anosto, Lodovico | 1474-1533 |
| 33 | Rucellai, Giovanni | 1475-1526 |
| 34 | Molza, Francesco | 1483-1544 See 851 3 |
| 35 | Tasso, Bernardo | 1493-1569 |
| 36 | Alamanni, Luigi | 1495-1556 |
| 37 | Guidiccioni, Giovanni | 1500-41 |
| 38 | Casa, Giovanni della | 1503-56 |
| 39 | Minor poets | |

.4 Later 16th century 1542-85

From convocation of council of Trent 1542 to pontificate of Sixtus 5 1585

- | | | |
|----|-------------------------|-----------|
| 41 | Costanzo, Angelo di | 1507-91 |
| 42 | Rota, Bernardino | 1509-75 |
| 43 | Tansillo, Luigi | 1510-68 |
| 44 | Magno, Celio | 1536-1602 |
| 45 | Guarini, Giovambattista | 1537-1612 |
| 46 | Tasso, Torquato | 1544-95 |
| 47 | Baldi, Bernardino | 1553-1617 |
| 49 | Minor poets | |

- 851.5 Period of decline 1585-1748**
 From pontificate of Sixtus 5 1585-90 to peace of Aix la Chapelle 1748
- | | | |
|----|-------------------------|-----------|
| 51 | Chiabrera, Gabriello | 1552-1637 |
| 52 | Marini, Giovambattista | 1569-1625 |
| 53 | Testi Fulvio | 1593-1646 |
| 54 | Filicaja, Vincenzo da | 1642-1707 |
| 55 | Guidi, Alessandro | 1650-1712 |
| 56 | Manfredi Eustachio | 1674-1738 |
| 57 | Frugoni Carlo Innocenzo | 1692-1768 |
| 58 | Algarotti Francesco | 1712-64 |
| 59 | Minor poets | |
- .6 Period of renovation 1748-1814**
 From peace of Aix la Chapelle 1748 to congress of Vienna 1814
- | | | |
|----|----------------------|-----------|
| 61 | Paradisi Agostino | 1736-83 |
| 62 | Mascheroni Lorenzo | 1750-1800 |
| 63 | Pindemonte Ippolito | 1753 1828 |
| 64 | Monti, Vincenzo | 1754 1828 |
| 65 | Cassi, Francesco | 1778 1846 |
| 66 | Foscolo, Ugo | 1779 1827 |
| 67 | Arici, Cesare | 1782-1836 |
| 68 | Sestini, Bartolommeo | 1797-1822 |
| 69 | Minor poets | |
- .7 Early 19th century 1814-59**
 From congress of Vienna 1814 to war of Independence 1859
- | | | |
|----|--------------------|----------------------|
| 71 | Berchet, Giovanni | 1783-1851 |
| 72 | Rossetti Gabriello | 1783-1854 |
| 73 | Manzoni Alessandro | 1785 1873 See 833 72 |
| 74 | Marchetti Giovanni | 1790-1852 |
| 75 | Leopardi Giacomo | 1798-1837 |
| 76 | Carrer Luigi | 1801-50 |
| 77 | Regaldi Giuseppe | 1803 83 |
| 78 | Prati, Giovanni | 1815-84 |
| 79 | Minor poets | |
- .8 Later 19th century 1859-1900**
 From war of Independence 1859 to 1900
- | | | |
|----|-------------------|-----------|
| 81 | Aleardi Aleardo | 1810-78 |
| 82 | Zanella, Giacomo | 1820-88 |
| 83 | Gnoli, Domenico | 1838- |
| 84 | Carducci, Giosuè | 1835-1907 |
| 85 | Fogizzaro Antonio | 1842-1911 |
| 86 | Rapisardi, Mano | 1844- |
| 87 | Guerrini, Olindo | 1845- |
| 88 | | |
| 89 | Minor poets | |
- 91 Early 20th century 1901-**
- 852 Italian drama**
- 1 Early Italian Age of Dante -1375**
- .2 Period of classic learning 1375-1492**
- | | | |
|----|------------------|---------|
| 21 | Belcari Feo | 1410-84 |
| 22 | Poliziano Angelo | 1454-94 |
| 29 | Minor dramatists | |

LITERATURE

852 3	Age of Leo the Tenth	1492-1542	
31	Machiavelli, Niccolò	1469-1527	See also 854 2
32	Dovizi Bernardo (Cardinal Bibbiena)	1470-1520	
33	Trissino, Gian Giorgio	1478-1550	
34	Aretino, Pietro	1492-1556	
35	Ambra, Francesco d'	-1558	
39	Minor dramatists		
4	Later 16th century	1542-85	
41	Speroni, Sperone	1500-88	
42	Giraldi, G. B. Cinzio	1504-73	See also 853.44
43	Cecchi, Giovanni Maria	1517-87	
44	Asinari, Federico	1527-76	
45	Porta, Giovambattista della	1538-1615	
49	Minor dramatists		
5	Period of decline	1585-1748	
51	Buonarroti Michelagnolo jr	1564-1646	
52	Rinuccini, Ottavio	1565-1622	
53	Andreini, Giovambattista	1578-1650	
54	Gigli, Girolamo	1660-1722	
55	Zeno, Apostolo	1669-1750	
56	Maffei, Scipione	1675-1755	
57	Metastasio, Pietro A. D. B. (Trapassi)	1698-1782	
59	Minor dramatists		
6	Period of renovation	1748-1814	
	For Manzoni, see 851 73 and 853 72		
62	Goldoni, Carlo	1707-73	
62	Gozzi, Carlo	1722-1806	
63	Capacelli-Albergati, Francesco	1728-1804	
64	Alfieri, Vittorio	1749-1803	
65	Nota, Alberto	1775-1847	
66	Biondi, Luigi	1776-1839	
67	Benedetti, Francesco	1785-1821	
69	Minor dramatists		
7	Early 19th century	1814-59	
71	Niccolini, Giovambattista	1782-1861	
72	Pellico, Silvio	1788-1854	
73	Giacometti, Paolo	1816-81	
74	Gherardi del Testa, Tommaso	1818-82	
75	Ferrari, Paolo	1822-89	
79	Minor dramatists		
8	Later 19th century	1859-1900	
81	Bersezio, Vittorio	1830-1900	
82	Cossa, Pietro	1833-82	
83	Carrera, Valentino	1834-95	
84	Marenco, Leopoldo	1831-99	
85	Cavallotti, Felice	1842-98	
86	Torelli, Achille	1844-	
87			
88			
89	Minor dramatists		
91	Early 20th century	1901-	

853 Italian fiction

1	Early Italian	Age of Dante	-1375	
11	"Commedia" (Giovanni Boccaccio)			
12	Boccaccio, Francesco da		1354-1362	
13	Manzoni, Alessandro		-1350	
14	Ghiberti, Lorenzo da			
15	Boccaccio, Giovanni		1313-75	
19	Minor writers			
2	Period of classic learning	1375-1492		
21	Saraceni, Franco		-1400	
22	Fiorentino, Ser Giovanni			
23	Manzoni, Antonio		1423-97	
24	Mangabotti, Andrea dei			
25	Gherardi Giovanni, da Prato	15th century		
29	Minor writers			
3	Age of Leo the Tenth	1492-1542		
31	Salernitano, Masuccio			
32	Bandello, Matteo		1480-1561	
33	Molza, Francesco		1483-1544	See also 812.34
34	Firenzuola, Agnolo		1493-1548	
39	Minor writers			
4	Later 16th century	1542-85		
41	Grazzini, Antonfrancesco (Lasca)		1503-83	
43	Doni, Antonfrancesco		1513-74	
44	Giraldi, Francesco		1525-85	
45	Parabosco, Girolamo		1504-73	See also 852.42
49	Minor writers			
5	Period of decline	1585-1688		
6	Period of renovation	1748-1814		
7	Early 19th century	1814-59		
71	Rosini, Giovanni		1776-1855	
72	Manzoni, Alessandro		1785-1873	See also 851.11
73	Grossi, Tommaso		1791-1853	
74	Guerrazzi, Francesco		1804-73	
75	Bresciani, Antonio		1798-1862	
76	Cantù, Cesare		1807-95	
77	Carcano, Giulio		1812-83	
78	Azeglio, Massimo d'		1800-66	
79	Minor writers			
8	Later 19th century	1850-1900		
81	Castellazzo, Luigi		1827-90	
82	Barni, Anton Giulio		1836-1908	
83	Capuana, Luigi		1839-1917	
84	Verga, Giovanni		1840-	
85	Faldella, Giovanni		1846-	
86	Fanna, Salvatore		1846-	
87	Giovagnoli, Raffaele		1838-	
88	o, Matilde		1856-	
89	Minor writers			
9	20th century			

854 Italian essays

- | | | | | |
|----|-----------------------------|--------------|-----------|-----------------|
| 1 | Early Italian | Age of Dante | -1375 | |
| 11 | Cavalca, Fra Domenico | | -1342 | |
| 12 | Passavanti, Fra Jacopo | | -1357 | |
| 2 | Period of classic learning | 1375-1492 | | |
| 21 | Alberti, Leone Battista | | 1404-72 | |
| 22 | Palmieri, Matteo | | 1405-75 | |
| 23 | Bisticci, Vespasiano da | | 1421-98 | |
| 24 | Collenuccio, Pandolfo | | -1504 | |
| 25 | Vinci, Leonardo da | | 1452-1519 | |
| 29 | Minor essayists | | | |
| 3 | Age of Leo the Tenth | 1492-1542 | | |
| 31 | Machiavelli, Niccolò | | 1469-1527 | See also 852 31 |
| 32 | Nardi, Jacopo | | 1476-1555 | |
| 33 | Castiglione, Baldassare | | 1478-1529 | |
| 34 | Guicciardini, Francesco | | 1482-1540 | |
| 35 | Giannotti, Donato | | 1494-1573 | |
| 36 | Giambullari, Pier Francesco | | 1495-1555 | |
| 37 | Gelli, Giovambattista | | 1498-1563 | |
| 38 | Varchi, Benedetto | | 1503-66 | |
| 39 | Minor essayists | | | |
| 4 | Later 16th century | 1542-85 | | |
| 41 | Castelvetro, Ludovico | | 1505-71 | |
| 42 | Piccolomini, Alessandro | | 1508-78 | |
| 43 | Borghini, Vincenzo | | 1515-80 | |
| 44 | Davanzati, Bernardo | | 1529-1606 | |
| 45 | Salviati, Leonardo | | 1540-89 | |
| 46 | Annunzio, Scipione | | 1531-1601 | |
| 47 | Paruta, Paolo | | 1540-98 | |
| 48 | Botero, Giovanni | | 1540-1617 | |
| 49 | Minor essayists | | | |
| 5 | Period of decline | 1585-1748 | | |
| 51 | Sarpi, Paolo | | 1550-1623 | |
| 52 | Galilei, Galileo | | 1564-1642 | |
| 53 | Bartoli, Daniele | | 1608-85 | |
| 54 | Dati, Carlo | | 1619-75 | |
| 55 | Gravina, Giovanni Vincenzo | | 1664-1718 | |
| 56 | Muratori, Ludovico Antonio | | 1672-1750 | |
| 57 | Giannone, Pietro | | 1676-1748 | |
| 58 | Zanotti, Francesco Maria | | 1692-1777 | |
| 59 | Minor essayists | | | |
| 6 | Period of renovation | 1748-1814 | | |
| 61 | Bettinelli, Saverio | | 1718-1808 | |
| 62 | Demina, Carlo | | 1730-1813 | |
| 63 | Tiraboschi, Girolamo | | 1731-94 | |
| 64 | Lanzi, Luigi | | 1732-1810 | |
| 65 | Beccaria, Cesare | | 1735-93 | |
| 66 | Filangeri, Gaetano | | 1752-88 | |
| 67 | Cesari, Antonio | | 1765-1828 | |
| 68 | Perticari, Giulio | | 1779-1822 | |
| 69 | Minor essayists | | | |

854.7	Early 19th century	1814-59	
.71	Costa, Paolo	1771-1836	
.72	Giordani, Pietro	1774-1848	
.73	Troya, Carlo	1785-1859	
.74	Balbo, Cesare	1789-1853	
.75	Capponi, Gino	1792-1878	
.76	Mamiani della Rovere, Terenzio	1800-85	
.77	Gioberti, Vincenzo	1801-53	
.78	Tommaséo, Niccolò	1802-74	
.79	Minor essayists		
.8	Later 19th century	1859-1900	
.81	Sanctis, Francesco de	1818-83	
.82	Bonghi, Ruggiero	1827-95	
.83	Conti, Augusto	1822-1905	
.84	Villari, Pasquale	1827-1917	
.85	Ardigò, Roberto	1828-1920	
.86	Comparetti, Domenico	1835-	
.87	Zumbini, Bonaventura	1840-	
.88	Panzacchi, Enrico	1841-1904	
.89	Minor essayists		
.91	Early 20th century	1901-	
855	Italian oratory	Subdivided by periods like 851	
856	Italian letters	" " " " "	
857	Italian satire and humor		
.1	Early Italian	Age of Dante	-1375
.11	Gemignano Folgore da San		
.12	Chitarra, Cene dalla		
.13	Angiolieri, Cecco		
.14	Pucci, Antonio	-1377	
.19	Minor writers		
.2	Period of classic learning	1375-1492	
.21	Burchiello Domenico	1395-1448	
.22	Pulci, Luigi	1432-84	
.23	Vinciguerra, Antonio		
.29	Minor writers		
.3	Age of Leo the Tenth	1492-1542	
.31	Folengo, Teofilo (Merlin Cocai)	1491-1544	
.32	Berni, Francesco	1496-1535	
.39	Minor writers		
.4	Later 16th century	1542-85	
.41	Nelli, Pietro		
.42	Beccuti, Francesco	1509-53	
.43	Caporali, Cesare	1531-1601	
.49	Minor writers		

857.5	Period of decline	1585-1748	
51	Tassoni, Alessandro		1565-1635
52	Bracciolini, Francesco		1566-1645
53	Lalli, Giovambattista		1572-1637
54	Lippi, Lorenzo		1606-64
55	Rosa Salvatore		1615-73
56	Menzini, Benedetto		1646-1704
57	Sergardi, Ludovico		1660-1726
58	Fortiguerra, Niccolò		1674-1735
59	Minor writers		
6	Period of renovation	1748-1814	
61	Gozzi Gasparo		1713-86
62	Passeroni Gian Carlo		1713-1803
63	Casti Giovanni Battista		1721-1803
64	Parini Giuseppe		1739-99
65	Baretti, Giuseppe		1716-89
66	Elci, Angelo Maria d'		1754-1824
67	Pananti Filippo		1766-1837
69	Minor writers		
7	Early 19th century	1814-59	
71	Giusti, Giuseppe		1809-50
8	Later 19th century	1859-1900	
91	Early 20th century	1901-	

858 Italian miscellany

8	Later 19th century	1859-1900	
81	Gubernatis Angelo de		1840-
82	Amicis, Edmondo de		1846-1908

859 Rumanian literature

Wallachian

1 Poetry	2 Drama	3 Fiction	4 Essays	5 Oratory	6 Letters
7 Satire and humor	8 Miscellany				

9 Romansh literature

Subdivided like 859

860 Spanish literature

860 1 Philosophy 2 Compendia 3 Dictionaries 4 Essays on Spanish literature
 .5 Periodicals 6 Societies 7 Study and teaching 8 Collections 9 History

861 Spanish poetry

.01 Dramatic 02 Romantic and epic 03 Lyric ballads 04 Didactic
 .05 Descriptive 07 Satiric and humorous 08 Collections 09 History
 of Spanish poetry

.1 Early Spanish ~1369

In 711 the Visigothic kingdom founded in the 5th century, was overthrown by
 Arabs 711-1492 Arabic period or Age of reconquest
 Literature began in first half of 12th century Earliest poetry, epic, subject
 national themes war and religion (861 11-12) These were followed by an erudite
 tendency toward classic tradition neglecting national themes (861 13 and 14)
 which were however revived toward the close of the period (861 15) by continued
 victories over Moors under Alfonso 11th 1112-50, thereafter reaction against
 toward didactic (861 16) Under Alfonso the Wise 1252-84 a general intellectual
 awakening but leading to greater results in prose than in poetry Thru him
 (1) Provençal (and Galician) and (2) Oriental influences were introduced 12
 Provençal literature chief attention was given to perfection of poetic form The
 Oriental was didactic in content symbolic in form

11 Primitiv monuments

12 Poema de mio Cid

13 Berceo, Gonzalo de 1196-1266

14 Segura de Astorga, Juan Lorenzo 1250

15 Yañez Ruy (Cronica del Rey Alfonso Onceno)

16 Sem Tob, Rabbi 1350

19 Minor poets

.2 Age of imitation 1369-1516

Henry 2d to Carlos 1st Charles 5th of Germany 1479 Union of Castile and
 Arragon Under Ferdinand and Isabella all Spain was brought under one scepter
 Provençal and didactic tendencies continue, a third element was Italian influence.
 There were 3 distinct schools

1 Provençal specially influential at court

2 Italian (Dante) or Allegoric introduced by Francisco Imperial a Genoese (Mena,
 861 23)

3 Didactic A protest against the Italian school in behalf of national literary
 traditions (Ayala 861 21)

21 Lopez de Ayala, Pedro 1332-1407

22 Mena Juan de 1411-56

23 Mendoza, Íñigo Lopez de Marqués de
 Santillana 1398-1458

24 Manrique, Jorge 1440-79

25 Los Cancioneros } Collections of poetry
 26 Los Romances }

27 Romancero del Cid

Romances popular poetry peculiar to Spain, and generally anonymous
 period of production, from earliest times to 16th century Golden Age
 during reign of Ferdinand and Isabella, a grand reawakening coming with
 the fall of Granada 1492

29 Minor poets

Golden age 1516-1700

Rule of House of Austria. Painting culminates in this period Morales 1509-86
Coello 1515-90, Joanes 1523-79 The Herrera — 16th century Ribera 1588 16,6

(561 32) Mendoza (561 36) represents a conciliation. A fusion of 2 schools follows in which the Italian was the major influence. Thereafter appear 2 new schools.

- 1 Classic opposed to the funny and represented by Leon (86r 33) and the Argensolas (86r 34) and
- 2 Sultan or Oriental (inspired specially by the Bible) of which Herrera (86r 35)

31

32	Castillejo, Cristóbal de	1494-1596
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33	Leon Luis Ponce de	1528-91
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Leon is equally important in prose

34	Los Argensolas Lupercio	1563-1613
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Bartolomé Leonardo	1564-1631
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15	Herrera, Fernando de	1534-97
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35	Herrera Fernando de	1334-97
36	Hurtado de Mendoza Diego	1503-76

36	Hurtado de Mendoza, Diego	1503-75
37	Góngora y Argote, Luis de	1561-16

37 Gongora y Argote Luis de 1561-1627

38	Rioja Francisco de	1600-59
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39 Minor poets

39	18th century	1700-1800
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At death of Carlos 3d (1700) war of succession resulted in firm establishment of house of Bourbon which with brief interruptions continued to rule til 1931. Spanish political importance lost. At opening of century complete decadence had taken everywhere dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance however til close of century despite foundation of academies (Spanish academy 1714) and doctrinal reform in French sense proclaimed by Luzan (1702-54) in *La poetica* etc. Thereafter a kind of revival: 3 schools formed.

- 1 Classic French. Moratín the elder (861: 41) Cadalso (861: 42) Yriarte (861: 45) and Saman ego (861: 44)
 - 2 Antique national protesting against introduction of French taste Huerta (861: 43)
 - 3 Salamanca school: an attempt to reconcile the first 2, avoiding the extravagances and conserving what was good in each. Valdés (861: 46) Iglesias (861: 47) Cienfuegos (861: 48) Moratín the younger (862: 42) and Jovellanos (868: 42)
- Prosaism: production of exaggerated opposition to Gongorism or bad taste: also characterizes period. Influence of French encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism. Rich development of fables and apologues in verse. Saman ego (861: 44) and Yriarte (861: 45). In epic: complete poverty.

41 Moratín (the Elder) Nicolás Fernández de 1737-80

41	Cadalso José de	1731	82
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-43	Huerta Vicente Antonio García de la	1734-87
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43	Rodríguez Juan Antonio Sureda de	1734-57
44	Samanejo Félix María de	1745-1807

44	Sanchez y Oropesa, Tomás de	1743-18
45	Inarte y Oropesa, Tomás de	1750-01

45	Valdés, Gregorio, Roman de	1790-91
46	Valdés, Juan Melendez	1781-1817

46	Parroquia San Francisco	1754-18
47	Iglesias de la Casa. José	1718-22

47	16,111111 de la Cruz, José	1748-91
48	Cienfuegos, Nicasio Álvarez de	1761-1800

Minor poets

861.3 19th century 1800-1900

7th, after restoration (1813-33), retrograde. An interregnum in letters. First real awakening with Espronceda (861 32). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861 53).

- .51 Quintana, Manuel José 1772-1857
- .52 Espronceda, José de 1810-42
- .53 Zorrilla y Moral, José 1817-90
- .54 Gutierrez, Antonio García 1812-84
- .55 Gil y Zárate, Antonio 1792-1861
- .56 Hartzenbusch, Juan Eugenio 1806-80
- .59 Minor poets

.6 Early 20th century 1901-

862 Spanish drama

.2 Age of imitation 1369-1516

Evidences of existence of 'mysteries' but no remains

- .21 Enzina, Juan del (?) 1468-1534

.3 Golden age 1516-1700

Latter, reputed father of national theater. Lope de Vega (861 31) real founder. Drama culminates in Calderon (861 35), thereafter decadence.

- .31 Vega Carpio, Lope Félix de 1562-1635
- .32 Castro y Belvis, Guillen de 1569-1631
- .33 Tellez, Gabriel (Tirso de Molina, pseud.) (?) 1570-1648
- .34 Ruiz de Alarcón y Mendoza, Juan (?) 1580-1639
- .35 Calderon de la Barca, Pedro 1600-81
- .36 Rojas Zorrilla, Francisco de 1607-48
- .37 Moreto y Cabana, Agustín 1618-69
- .39 Minor dramatists

.4 18th century 1700-1800

Complete decadence of drama in last years of old monarchy. Revival in 18th

- .41 Comella, Luciano Francisco 1716-79
- .42 Moratin, Leandro Fernandez de 1760-1828
- .43 Cruz Cano y Olmedilla, Ramon Francisco de la 1731-94
(Light comedies)
- .49 Minor dramatists

.5 19th century 1800-1900

Zorrilla (861 53), Gutierrez (861 54), and Rubí (861 51) represent 'romantic' movement in Spanish drama. For Gil y Zárate, see 861 55. Hartzenbusch 861 56

- .51 Martinez de la Rosa, Francisco 1789-1862
- .52 Rodriguez Rubí, Tomás 1817-90
- .53 Bretón de los Herreros, Manuel 1796-1873
- .59 Minor dramatists

.6 Early 20th century 1901-

863 Spanish fiction

.2 Age of imitation 1369-1516

Immense vogue of books of chivalry despite legislation til publication of *Don Quixote* thereafter only ones written [First part of *Quixote* printed 1605]

21 Books of chivalry

22 Amadis de Gaula

23 Celestina

.3 Golden age 1516-1700

Real novel replaces old books of chivalry about 1500 'Picaresca' or 'rogue' novel characteristic of this period a result of the state of society following wars of Charles 1st and Philip 2d e. g. Mendoza's *La zorra de Toros* For Mendoza see 861 36

31 Montemayor, Jorge de

1520-61

.32 Cervantes Saavedra, Miguel de

1547-1616

39 Minor novelists

.4 18th century 1700-1800

.5 19th century 1800-1900

For Bretón de los Herreros see 862 53 and Rodríguez Rubí, 862, 52

31 Larra, Mariano José de [Figaro]

1809-37

32 Mesonero y Romanos, Ramón de

1803-82

33 Arrom, Cecilia Boehl de [Fernan Caballero] 1797-1877

39 Minor writers

.6 Early 20th century 1901-

864 Spanish essays

Subdivided by periods like 861

865 Spanish oratory

Hardly any forensic and little sacred eloquence When language and culture advanced privileges of Cortes restrained Sacred eloquence less employed by Spanish church than by French or English Gongorism or 'bad taste' conquers here as elsewhere

.1 Early Spanish -1369

.2 Age of imitation 1369-1516

.3 Golden age 1516-1700

For Luis de Leon, see 861 33, and Luis de Granada 862, 22

.4 18th century 1700-1800

For Jovellanos see 868 42, and Valdés 861 46

.5 19th century 1800-1900

31 Olozaga, Salustiano de

1803-73

32 Castelar, Emilio

1832-99

.6 Early 20th century 1901-

866 Spanish letters

.3 Golden age 1516-1700

Naturalness of old times changed with majestic court and rigid etiquette of Charles 5th. For Santa Teresa, see 868 23

31 Avila, Juan de

1502-69

32 Perez, Antonio

1540-1612

39 Minor writers

867 Spanish satire and humor

- | | | | |
|----|---|-----------|-----------|
| 1 | Early Spanish | -1369 | |
| | Ruiz Juan (Arcipreste de Hita) | | 1350 |
| 2 | Age of imitation | 1369-1516 | |
| | <i>Coplas de Mingo Revulgo</i> | | |
| 3 | Golden age | 1516-1700 | |
| | Quevedo Villegas Francisco Gomez de | | 1580-1645 |
| 4 | 18th century | 1700-1800 | |
| | For Cadalso see 861 42 and Moratin the younger 862 42 | | |
| 41 | Jorge Pitullas (a pseudonym) | | |
| 42 | Isla José Francisco de (el Padre) | | 1703-81 |

868 Spanish miscellany

- | | | | |
|----|---|-----------|-----------|
| 1 | Early Spanish | -1369 | |
| 11 | Alfonso 10 el Sáb o | | 1221 84 |
| 12 | Sancho el Bravo (4th of Castile) | | 1258-95 |
| 13 | Juan Manuel infante of Castile | | 1282 1347 |
| 14 | Alfonso 11 | | 1310-50 |
| 19 | Minor writers | | |
| 2 | Age of imitation | 1369-1516 | |
| | General and special histories books of travel works cald forth by Boccaccio's <i>Coraccio</i> etc | | |
| 3 | Golden age | 1516-1700 | |
| | D dact c prose Considerable development tho less than poetry owing in great measure to pol t cal and relig ious restraints Bad taste manifests itself here as elsewhere Lu s de Granada Santa Teresa San Juan de la Cruz Pedro de Riva deneyra and Lu s de Leon representat vs of Myst c school | | |
| | For Luis de Leon see 861 33 and Quevedo Villegas 867 3 | | |
| 31 | Mariana Juan de founder of Spanish history | 1536-1623 | |
| 32 | Granada Luis de | 1504 88 | |
| 33 | Teresa de Jesus Santa | 1513 82 | |
| 34 | Cruz San Juan de la | 1542-91 | |
| 35 | Rivadeneyra Pedro de | 1527-1611 | |
| 36 | Saavedra Fajardo Diego de | 1584-1648 | |
| 39 | Minor writers | | |
| 4 | 18th century | 1700-1800 | |
| | Under Carlos 3d (1750-88) scientific studies took a fresh start due largely to Fe j6o who attempted intellectual emancipation of Spain Prose advances und r French influence Gal cisms introduced | | |
| 41 | Feijóo y Montenegro Benito Jerónimo | 1676-1764 | |
| 42 | Jovellanos Gaspar Melchor de | 1744-1811 | |
| 49 | Minor writers | | |
| 5 | 19th century | 1800-1900 | |
| | For Hartzenbusch J E see 861 56 | | |
| 51 | Gayangos Pascual de | 1809-97 | |
| 52 | Rios José Amador de los | 1818-78 | |
| 53 | Milá y Fontanals Manuel | 1818 84 | |
| 59 | Minor writers | | |
| 6 | Early 20th century | 1901- | |

868.99 Spanish dialect and local literature**991 General questions**

1-8 divided by literary form like 811-818, e g 868 9911 Spanish dialect poetry

992 Spanish dialect and local literature of Spain

Divided like 946, under each 1-8 may be used for literary form like 811-818, etc. as explained under 818 94, e g 868 9924 Spanish literature of New Castile, 868 99242 Spanish drama of New Castile

994-999 Other Spanish dialect and local literature divided geographically like 946-999, under each 1-8 may be used for literary forms like 811-818; e g 868 99694921 Spanish poetry of Spanish Morocco
For detailed statement of procedure see note under 818 94 For application of method see 868 997-998 North and South American Spanish literature**997 North American Spanish literature**

1-8 Literary forms (1 Poetry, 2 Drama, etc like 811-818), e g 868 9971 North American Spanish poetry

9 North American local Spanish

Divided like 971-979, using 1-8 after each geographic subdivision for literary forms, e g 868 99792 Mexican Spanish literature, 868 997931 Mexican Spanish poetry, 868 997929 Mexican local 868 9979295 Spanish literature of Mexico City and Federal district, 868 99798 Central American Spanish literature, 868 9979891 Guatemalan Spanish literature, 868 99799 Spanish literature of West Indies, 868 99799911 Cuban poetry

998 South American Spanish literature

Spanish American literature in general 1 Poetry, 2 Drama, 3 Fiction, 4 Essays, 5 Oratory, 6 Letters, 7 Satire and humor, 8 Miscellany

9 South American local

Divided like 981-989, using 1-8 under each geographic subdivision for literary forms

92 Argentine Spanish literature

921 Poetry, 922 Drama, etc

929 Argentine local**93 Chilean Spanish literature**

931 Poetry, 932 Drama, etc.

939 Chilean local

Etc.

869 Portuguese literature

.1 Poetry	.2 Drama	.3 Fiction	.4 Essays	5 Oratory	6 Letters
.7 Satire and humor	8 Miscellany				

.8998 South American Portuguese literature

81-88 Literary forms 89 Local, 891 Brazilian

.9 Galician literature

Subdivided like 869

870 Latin literature

1 Philosophy 2 Compendis 3 Dictionaries cyclopedias 4 Essays on
 Latin literature 5 Periodicals 6 Societies 7 Study and teaching 8 Collections
 9 History of Latin literature
 For classical literature (including both Greek and Latin) see 880

871 Latin poetry in general

See Dramatic, Epic and Lyric below

- 1 Lucretius Carus, Titus
- 2 Ovid (Publius Ovidius Naso)
- 3 Hyginus, Caius Julius
- 4 Faliscus, Gratus
- 5 Manilius, Marcus
- 6 Phaedrus
- 7 Lucilius Junior Aina
- 8

872 Latin dramatic poetry

- 1 Andronicus, Livius
- 2 Naevius, Cnaeus
- 3 Plautus, Titus Maccius
- 4 Ennius
- 5 Terence (Publius Terentius Afer)
- 6 Seneca, Lucius Annaeus See also 878 5
- 7

873 Latin epic poetry

- 1 Virgil (Publius Virgilius Maro)
- 2 Lucanus, Marcus Annaeus
- 3 Flaccus, Caius Valerius
- 4 Silius Italicus, Tiberius Caius
- 5 Statius, Publius Papinius
- 6

874 Latin lyric poetry

- 1 Catullus, Tibullus and Propertius
- 2 Catullus Valerius
- 3 Tibullus Albius
- 4 Propertius Sextus Aurelius
- 5 Horace (Quintus Horatius Flaccus) See also 877 3
- 6 Calpurnius Siculus
- 7

885 Greek oratory

- .1 Andocides
- .2 Lysias
- .3 Isaeus
- .4 Isocrates
- .5 Æschines
- .6 Demosthenes
- .7 Hyperides
- .8 Lycurgus
- .9 Other Greek orators

886 Greek letters

- .1 Themistocles
- .2 Alciphron
- .3 Phalaris

887 Greek satire and humor

For comedies of Aristophanes see 882.4

- .1 Archilochus
- .2 Simonides of Samos
- .3 Hipponax

888 Greek miscellany

- .1 Herodotus
- .2 Thucydides
- .3 Xenophon
- .4 Plato See also 184 : Platonic philosophy
- .5 Aristotle See also 185 : Aristotelian philosophy
Or if preferred the works of Plato and Aristotle may be put in 184 : and 185 :
- .6 Æsop
- .7 Lucian
- .8 Plutarch See also 180 :
- .9 Other writers

889 Medieval and modern Greek Other Hellenic

1 Poetry 2 Drama 3 Fiction 4 Essays 5 Oratory 6 Letters
7 Satire and humor 8 Miscellany

890 Literature of other languages

Subdivided like 490. Philology of other languages If wished 1 Poetry 2 Drama, etc. can be used after the language number e.g. Russian drama is 891.72 Hebrew poetry 892.41 Bengali poetry 892.441 See also Supplementary table J

History

Thruout local history 930-979 single divisions are reserved for historical periods except in general Irish (9413) and general U S (973) history Period divisions designated for the history of any country may be applied to any of its subdivisions e.g. 942.06 History of England under the Stuarts 942.6706 History of Essex co. Eng. under the Stuarts

900 History in general

901-909 all have *History in general* as their subject but it is treated in these various forms A periodical on English history goes in 942.005 not 905 which is only for periodicals on history in general Naught (e) in any class number in any part of the classification shows the subject to be general not specific

- 901 Philosophy, theories, etc History of civilization
- 902 Compendis, chronologies, charts, outlines
For chronology as a science see 529
- 903 Dictionaries, cyclopedias, etc
- 904 Essays, lectures, addresses
- 905 Periodicals, historical magazines
- 906 Societies, transactions, etc
- 907 Historiography, methods of teaching, writing, etc
- 908 Polygraphy, collected works, extracts, etc
- 909 Universal and general modern histories

For general Ancient histories see 930

1 A D 476-1199	5 1500-1599	81 1800-99
2 1200-1299	6 1600-1699	82 1900-99
3 1300-1399	7 1700-1799	
4 1400-1499	8 1800-	

910 Geograpy Travels Description

Including topograpy maps antiquities descriptions etc

For map p object on see 526.8 See also 310 Statistics 390 Customs and costumes For directories guidebooks gazetteers etc of special countries or geographic sections see under those sections 913-919

- 1
- 2 Traveler's manuals, guidebooks
- 3 Dictionaries, gazetteers
- 4 Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures
- 5 Periodicals
- 6 Societies
- 7 Study and teaching of geograpy school map drawing
For primary teaching of geograpy see 373.891
- 8 Collections of travels, etc
- 9 History of geograpy, travels, explorations, etc

- 911 Historic Growth and changes in political divisions, etc. Subdivided like 930-999
- 912 Maps, atlases, plans of cities, etc.
Subdivided like 930-999
- 913 Antiquities, archeology, of special countries
See also 220.93 Biblical antiquities, 340.3 Legal antiquities, 571 Prehistoric archeology, 930 Ancient history, 390 Special customs
- .3 Antiquities of ancient countries
Subdivided like 930 e.g. 913.32 Egyptian antiquities Antiquities of countries having both ancient and modern history numbers should be class in 913.3 unless the antiquities relate wholly or mainly to the country after it entered the 'modern period
- .4-9 Antiquities of modern countries
Subdivided like 940-999 e.g. 913.42 English antiquities See also note under 913.3
- 914 Europe 914-919 is subdivided like 940-999 Whenever these main geographic headings occur they may be subdivided exactly like History The full list of subheads is printed only under 940-999 In assigning numbers to travels, use the history tables, insert 1 after the initial 9, and move the decimal point, e.g. Guide to N Y city is 917.471, for N Y city in history tables is 974.71
- 915 Asia
- 916 Africa
- 917 North America
- 918 South America
- 919 Oceania and Polar regions

920 Biography

Including autobiography diaries personal narratives eulogies biographical sketches, etc. All biography is here grouped together under the main classes and subdivided in the same way with the variations indicated below for Philosophy Theology and Sociology i. e. the biography of science is divided like science itself see 500-599 Lives of chemists at 923.4 of botanists 925.8 of sailors 926.56 of actors 927.92 of the inventor of hard rubber 926.78 etc. The rule is to give each life the number of the subject it illustrates most or to the student of which it will be most useful.

Notes which will not go under any heading without forcing are best put in a single alphabet under the 3 figures 920 for men and under 920.7 for women.

Another plan is to scatter biography with the other books using 920-928 only for general works cross references etc. This simply omits the first 2 figures 92 and the life of a botanist is 580 instead of 958 and goes with botanical books. This plan

below

General and collective by localities

Including only collected lives too general to go under any subject heading

- | | | |
|----|---|----------------------------------|
| 01 | Universal | |
| 02 | Partial collections not limited to any special country or subject | |
| 03 | Ancient | } 920.03-09 Divided like 930-999 |
| 04 | Of Europe | |
| 05 | " Asia | |
| 06 | " Africa | |
| 07 | " North America | |
| 08 | " South America | |
| 09 | " Oceania | |

920 Individual and collectiv by subjects

- 1 Bibliographers
- 2 Librarians
- 3 Encyclopedists
- 4 Publishers Booksellers
- 5 Journalists
- 6 Academicians
- 7 Women Collected and individual lives not clearly going with any subject
- 8 Eccentrics, cranks, fools, insane, etc See also 133 1 Insanity
- 9 Other special classes not included in 921-928
Divided like the whole classification e.g. 920 9139 Phrenologists 920 90291 Genealogists

921 Of philosophy

- 1 American Canadian
For Latin American (Mexican etc) see under 921 8
- 2 British
English Scotch Irish Welsh For Canadian see 921 1
- 3 German Austrian
- 4 French
- 5 Italian
- 6 Spanish
- 69 Portuguese
- 7 Slavic, etc
Divided like 947
- 8 Other modern
Divided like 940-999 except for those specially provided for above and modern oriental to be classed in 921 9 e.g. 921 8438 Polish 921 8485 Swedish 921 8492 Dutch 921 872 Mexican
- 9 Ancient Oriental Patristic Scholastic See 180-189

922 Of religion clergy, missionaries, preachers

- 922 1-922 85 may be subdivided for nationality like 930-999
- 1 Primitive apostles, fathers, etc oriental, Greek, Russian
See 225 93 for New Testament biography
- 2 Roman catholic popes, cardinals, etc
- 21 Lives of popes 22 Hagiology
- 3 Anglican and protestant episcopal
- 4 Continental protestant Lutheran, Huguenot
- 5 Presbyterian and congregational
- 6 Baptist Immersionist
- 7 Methodist
- 8 Unitarian, universalist and other Christian
- 81 Unitarian Universalist
- 83 Mormons
- 84 New church or Swedenborgian
- 85 Christian science
- 86 Quaker
- 87 Menonite
- 88 Shaker
- 89 Other Christian sects

- 922.9 Nonchristian
- .91 Atheist
 - .92 Greek and Roman
 - .93 Early Teutonic
 - .94 Brahman Buddhist
 - .95 Parsee
 - .96 Jew
 - .97 Mohammedan
 - .98
 - .99 Other nonchristian religions

923 Of sociology

923 1-923 9 may be subdivided for nationality, as in 930-999, e. g. the life of an English king is 923 142, of a Russian czar, 923 147, of a Chinese general, 923 551

- .1 Chief rulers: kings, queens, emperors, presidents
- .2 Political science: legislative dep't, governors, politicians, statesmen, nobles, etc. For slaves, see 326 92
- .3 Political economy: bankers, capitalists, financiers
- .4 Law: judiciary dep't, lawyers, judges
- .41 Criminals
- .5 Administration: army and navy, civil service
- .6 Associations and institutions Philanthropists, etc.
- .7 Education: teachers, school officers, educators
- .8 Commerce and communication: railway officials, merchants, etc.
- .9 Manners and customs: society, travelers, discovery

924 Of philology

- 925 " science
- 926 " useful arts
- 927 " fine arts
- 928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures unless in a large special collection, e. g. in a music library, lives of pianists may be separated as 927 862. Professors known as specialists go with the subject taught rather than with teachers, e. g. a professor of geology 925 5, but if more prominent as an educator than as a geologist he goes in 923 7.

In adding figures for the subdivisions of literature as in 810-899 class historians with miscellaneous authors as 8, i. e. Gibbon's life is 928 25, 928 31 is life of a German poet and 928 691 is life of a Portuguese poet. For general collective biographies of literary men 928 081-087 may be divided like 808 1-7, class lives of historians in 928 088, for genealogists see note under 920 9.

929 Genealogy and heraldry

.1 Genealogies

2 Families

3 Registers of births, baptisms, marriages, deaths

4 Names of persons and places

5 Epitaphs

.6 Heraldry

.7 Peerage, precedence, titles of honor Royal houses

.71 Orders of knighthood

711 St John of Jerusalem

712 Templars

713 Teutonic knights

714 Garter

715 Golden Fleece

716 Holy Ghost

.717

718

719

.72 Great Britain and Ireland

7201 Peerage Royal houses

7202 Baronetage

7203 Knightage

7204 Dignities, precedence

7205 Landed gentry

7206 Visitations Alphabetized by counties

73 Germany

.74 France

.75 Italy

76 Spain

769 Portugal

.77 Russia

.78 Scandinavia

79 Other European countries

Divided like 949 countries outside Europe are put together in 929 7999
divided like 930-999

.8 Coats of arms, crests

.9 Flags

Further subdivided locally if needed like 943 948 Under
any geographic division 01-06 may be used as shown above
under 929 72

930 Ancient history -476 A.D.

931 China Serica -AD420 (circa)

Later history is clast in 951 If preferd all works on history of China may be brought together under 951 (see note under 951 01) For note on dates and spelling see under 951

- .01 Earliest period -1122BC
- Mythologic and legendary history to circa 1500BC
- .02 Hsia dynasty 2305-1766BC
- .03 Shang or Yin dynasty 1766-1122BC
- .04 Chou dynasty 1122-255BC
- Feudal age (800-771), Ch'un-Ch'iu or Age of Spring and Autumn (770-473), Chan kuo or Age of the Contending states (473-221)
- .05 Chin (Tsin) dynasty 255-206BC
- .06 Han dynasty 206BC-AD221
- (The Empire, 221BC-AD88) .062 Western Han 206BC-AD25
- .065 Eastern Han AD25-221
- .07 *The Three Kingdoms* 221-265
- .072 Wei 220-265 .074 Shu 221-265 .076 Wu 229-265
- .08 Chin (Tsin) dynasty 265-420
- .082 Western Chin (Tsin) 265-317 .085 Eastern Chin (Tsin) 317-420

932 Egypt

933 Judea Jewish Palestine

934 India

935 Medo-Persia

- .1 Chaldea
- .2 Assyria Nineveh
- .3 Media
- .4 Babylonia
- .5 Persia
- .6 Parthia
- .7 New Persian or Sassanian
- .8 Mesopotamia
- .9 Susiana

936 Races forming the new European nations Barbarians

To fall of Western empire A. D. 476

- .3 Germans
- 31 Burgundians Bourguignons Vandals Alani
- 311 Burgundians
- 312 Bourguignons
- 313 Vandals
- 314 Alani
- 32 Saxons and Angles
- For history after 476 A. D. see 942 England
- .321 Saxons
- .322 Angles

DECIMAL CLASSIFICATION

936	33	Alemanni	Heruli	Suevi
	331	Alemanni		
	332	Heruli		
		For h sto y after 476 A D	see 945 Italy	
	333	Suevi		
		For h story after 585 A D	see 946 Spa n	
	35	Lombards		
		For h story after 472 A D	see 945 or Italy	
	36	Goths		
	361	East Goths	Ostrogoths	
		For h story after 493 A D	see 945 or Italy	
	362	West Goths	Visigoths	
		For h story after 476 A D	see 946 Spain	
	4	Kelts		
		For h story of Gaul	see 944 France	
	7	Slavs		

937 Rome Italy

Period divisions

01	Kings	753-509 B C.
02	Republic	509- 31 "
03	Conquest of Italy	509-264 "
04	Punic wars	264-146 "
05	Civil strife	146- 31 "
06	Empire	31 B C 476 A D
07	Constitutional	31 " -284 "
	Augustus—Illyrian emperors	
08	Absolute	284 476 "
09	Division of empire	395 476 "
	Barbarian conquests and fall of Western empire	

Geographic divisions

1	Liguria	
2	Gallia Cisalpina	
3	Venetia	Istria
4	Umbria	Picenum Sabini, etc
5	Etruria	
6	Latium, Rome	
7	Southern Italy	Campania, Samnium, Apulia, etc
8	Sicily, Syracuse	
9	Sardinia	Corsica

938 Greece

Period divisions

01	Mythical age	-776 B C
02	Growth of states	775-500 "
03	Persian wars	500-479 "
04	Athenian supremacy	479-431 "
05	Peloponnesian war	431-404 "
06	Spartan and Theban supremacy	404-362 "
07	Macedonian supremacy	362-323 "
08	Roman conquest of Greece	323 146 "
09	Greek subjection	146 B C -323 A D

Byzantine empire is class 940 5

Geografic divisions of Greece

938.1	Macedonia					
.2	Thessaly	Epirus				
.3	Acarnania	Ætolia	Locris	Doris	Phocis	Ithaca
.4	Boeotia	Megaris	Euboea			
.5	Attica					
6	Peloponnesus					
.7	Corinthia	Achaia				
.8	Elis	Arcadia	Argolis			
.9	Messenia	Laconia	Sparta			

939 Other countries

.1	Grecian archipelago					
	.11 Northern islands	Thasos, Lemnos etc.	.12 Lesbos	.13 Chios		
	etc	.14 Samos, etc.	.15 Cyclades	.16 Rhodes, etc.		
	.17 Carpathos	18 Crete				
.2	Western Asia Minor					
	21 Mysia, Troas	22 Lydia	23 Ionia	24 Caria		
	25 Bithynia	.26 Phrygia	.27 Pisidia	.28 Lycia		
	29 Pamphylia					
.3	Eastern Asia Minor					
	31 Paphlagonia	32 Galatia	33 Pontus	34 Cappadocia		
	35 Cilicia	36 Commagene	37 Cyprus			
.4	Syria					
	41 Upper Syria	42 Coele Syria	43 Palmyra	44 Phenicia		
	Tyre	45 Palestine	Hittites, Philistines, etc	46 Edom		
	Moab, Bashan, etc	47 Arabia	48 Arabia Petraea	Sinai		
.5	Northwestern Asia					
	51 Scythia	52 Sarmatia Asiatica	53 Colchis	.54 Iberia		
	55 Armenia	.56 Albania				
.6	South Central Asia					
	61 Sogdiana	62 Hyrcania	63 Margiana	64 Bactriana		
	65 Ariana					
.7	Minor African countries					
	71 Mauritania	72 Numidia	.73 Africa Propria, Carthage			
	74 Syrtica Regio	75 Cyrenaica	76 Marmarica	77 Libya		
	Gaetulia	78 Ethiopia				
.8	Southeastern Europe					
	81 Sarmatia Europa	82 Dacia	83 Vindelicia	84 Rhaetia		
	85 Noricum	86 Pannonia	87 Illyria	88 Moesia		
	89 Thracia					

Modern history

940 Europe

- From fall of the Western empire (Rome) A. D. 476
- .1 **Medieval Europe** 476-1453
For Byzantine empire see 940.3
- 11 **Rise of new nations** 476-800
- 14 **Age of feudalism** 800-1100
See also 321.3 Feudalism (Political science)
Charlemagne 768-814
Norman conquests
- .17 **Age of chivalry** 1100-1453
To fall of Eastern empire (Constantinople) 1453
- 18 **Crusades** 1096-1270
See also church history 270.4.5
- 181 1st crusade 1096 (Peter the Hermit)
- 182 2d " 1147 (St Bernard)
- 183 3d " 1190 (Richard Coeur de Lion)
- 184 4th " 1202 (Baldwin of Flanders)
- 185 5th " 1212 (Children's crusade)
- 186 6th " 1217 (Capture of Jerusalem)
- 187 7th " 1228
- 188 8th " 1248 (St Louis)
- 189 9th " 1270 "
- 2 **Modern Europe** 1453-
- 21 **Renaissance period** 1453-1517
Discoveries and inventions
- .22 **Age of the reformation** 1517-1789
- 23
- 24 30 years war 1618-48
- 25
- 26
- 27 **Napoleonic period** 1789-1815
- 28 **19th century** 1815-1914
- 29
- 3 **World war** 1914-19
- SUMMARY OF 940.3-4
- 31 Political history
- 32 Diplomatic history
- 33 Groups of countries allies and neutrals
- 34 39 Individual countries
- 4 Military history
- 41 Land operations
- 42 43 Special campaigns and battles
- 44 Air warfare
- 45 Naval history
- 46 Celebrations commemorations
- 47 Poisons hospitals welfare work
- 48 Personal narratives secret service propaganda
- 49 Illustrative material

- 940 31 Political history
- 311 Causes
- Conditions and events mentioned below are to be class here only when considered distinctly as causes of the war, otherwise under their own numbers
- 2 Historical, political and diplomatic causes
- Militarism. Imperialism (See 321 03) Pan Slavism (See 327 47) Pan Germanism (See 327 43) Near East question, Congress of Berlin (See 341 1) Triple alliance, Dual alliance, Triple entente (See 341 2) Diplomatic crises 1st Moroccan crisis 1905-6, annexation of Bosnia and Herzegovina 1909, 2d Moroccan crisis 1911 Balkan league 1912 Treaties of Lausanne, 1912, London, 1913 Bukarest, 1913 (See 341 2 Treaties) Crisis of 1914 assassination of Archduke Francis Ferdinand ensuing complications
- 3 Economic causes
- Socialism (See 335) Commercial rivalry Desire for colonial empires Over population in Europe, Food supply, Outlet for manufactures, Ambition for cultural expansion
- .312 Efforts to preserv or restore peace
- See also 940 32 Diplomatic history
- Proposed: Hague mediation by Serbia, conference in London by Grey, submission to Hague tribunal by Russia submission of problems to the great powers by Russia
- 2 By year
- 24 In 1914
- 25 " 1915
- 26 " 1916
- 27 " 1917
- 28 " 1918
- 8 By classes of persons
- Divided like main classification e g efforts by clergy 940 31282
- 9 By country
- Divided like 940-999
- .314 Results terms of peace (See note under 940 311)
- 1 Treaties and conferences (See also 341 1-2)
- Treaty of Versailles 23 June 1919 between Allies and Germany ratified by U S 18 Oct 1921
- 12 Subsequent treaties and conferences
- Defensive alliances between France and England, and between France and U S
- Treaty of St Germain, 17 Oct 1919, with Austria
- " " Neuilly, 27 Nov 1919 with Bulgaria
- Paris conference 24 Jan 1921
- Brussels, 24 Sep 1921
- Cannes conference 6 Jan 1922
- Washington disarmament conference 6 Feb 1922
- Genoa conference 10 Ap 1922
- 2 Treaty outcomes
- 22 Reparations
- 24 Changes in boundaries
- 25 Establishment of new nations
- 26 " " mandates
- 3 League of nations (See 341 1)

DECIMAL CLASIFICATION

- 940 3144 **Reconstruction**
 May be divided like 940-999 but preferably class with individual countries
- 8 **Effect on world conditions**
 May be divided like main classification but results with relation to special topics preferably class with that topic
- 9 **Effect on special countries**
 May be divided like 940-999 but preferably class with individual countries
- 315 **Relations of classes distinctly represented in main classification**
 Subdivided like the classification, using 9 for refugees, divided like 940-999 by country of origin. For classes not thus provided for see 940.316
- 2 **Clergy Church**
 Subdivided 3152 281 like 280 but use 315289 for sects, 289 e.g.
 315219 Greek catholic church
 22 Roman * * * Pope
 2895 Christian scientists
 Use 315291 like 290 e.g.
 315296 Jews
 297 Mohammedans Holy war
- 316 **Other special classes**
- 1 **Noncombatants**
- 2 **Pacifists**
- 3 **Enemy sympathizers**
- 318 **Relations of special interests Aspects**
 Divided generally like the classification, e.g. economic aspect 940 31833
- 32 **Diplomatic history**
 See also 940 31 314 Political history
- 322 **Entente**
 Divided like 940-999
- 324 **Teuton allies Central powers**
 Divided like 940-999
- 325 **Neutrals**
 Divided like 940-999
- 33 **Groups of countries allies and neutrals**
 Collectively for individual countries see 940 34 39
- 332 **Entente**
- 334 **Teuton allies Central powers**
- 335 **Neutrals**
- 34-39 **Individual countries**
 Divided like 940-999
 Under each country further subdivision may be made with the following numbers. For a part in this war is classed here instead of with the rest of its history
- 01 Political history Causes
 - 02 Diplomatic
 - 03 Local (states, counties, provinces, cities)
 - 04 Military organization
 Class operations in 940 4
 - 05 Aspects economic and other
 - 06 Celebrations
 - 07 Prisons etc
 - 08 Personal narratives
 - 09 Illustrative

- 940 4 **Military history**
- 401 **Strategy**
- 2 **Entente** Divided like 940-999
- 3 **Teuton allies, Central powers** " " "
- 402 **Recruitment Volunteers Drafts**
 Class here general discussions only When relating to special country
 class under 940 34 39
- 403 **American negroes American Indians**
 Class here general discussions of use of such troops For their history
 as military units see 940 41273
- 405 **Penal and malign measures**
 Deportation, confiscation, censorship, p
- 6 **Frightfulness Atrocities**
 As military expedient. For other relations see Cruelty in Relative
 index
- 41 **Land operations**
 For general works on land operations by special countries or in special
 localities. Class accounts of special campaigns and battles in 940 42-43
 Divisions of 940.41 (except 940.411) may if needed be further subdivided
 like 940-999. For operations in special localities the most important
 geographic divisions are broadly designated under 940 414 416
- 411 **Special branches of service**
 Under 940.412 which in most American libraries will take most of the
 material of this kind is given a book number scheme for the various
 classes of military units. 940 412-413 are usually divided geographically
 before book number is added but special service histories not limited to
 special countries or groups of Entente or Central powers may (unless
 because of the broad scope 355-358 is preferred) be classed in 940 411
 and arranged by book numbers given under 940 412 e.g. History of
 cavalry engagements in World war 940 411 H
- 412 **Military organizations of Entente**
 Divided geographically like 940-999. Under each local division arrange
 by book number scheme given below. C-X are generally subarranged
 by number of army corps division or regiment etc. When there are
 more than 9 units in a group 0 must be prefix to numbers for 1st 9
 otherwise 9th would shelf after 89th. When there are more than 99
 units in a group 00 must be prefix to numbers for 1st 9 and 0 to
 numbers 10-99 and in view of difficulty which would often be involved
 in determining whether there were more than 99 it is recommended
 that this method be used except for C Armies and D Corps. Special
 designations must be provided for unnumbered and peculiarly numbered
 units. Material on units with distinctive names but without numbers
 may be arranged alphabetically by name of unit. General histories of
 any branch of service of Entente or Central powers (i.e. not limited to
 special country) may be classed in 940.412 for Entente and 940.413 for
 Central powers followed directly by book number for special service
 e.g. History of cavalry engagements of Entente forces in World war
 940.412 H

DECIMAL CLASSIFICATION

C **Armies**
 Some armies had not only numbers but also distinctive names, e.g. US 3d army same as Army of Occupation

D **Corps**

E **Divisions**

For many divisions having distinctive names numbers are as follows

US 3 Marne 4 Ivy 5 Red Diamond or Meuse 6 Star or Sight
 Seeing 7 Hour Glass 8 Pathfinder 11 Lafayette 12 Plymouth 14
 Wolverine 17 Thunderbolt 18 Cactus 19 Twilight 26 Yankee or
 New England 27 Empire or New York 28 Keystone Iron or Penn-
 sylvania 29 Blue and Gray 30 Old Hickory 31 Dixie 32 Iron Jaw,
 Red Arrow or Lea Terribles 33 Prairie or Illinois 34 Sandstorm 35
 Santa Fe 36 Panther or Lone Star 37 Buckeye 38 Cyclone 39 Bull's-
 eye 40 Sunshine 41 Sunset 42 Rainbow 76 Liberty Bell 77 Metro-
 politan or New York's Own 78 Lightning 79 Liberty or Lorraine
 Cross 80 Blue Ridge 81 Wildcat (also name of 321st regiment
 of infantry see G) 82 All American 83 Ohio 84 Lincoln or Rail
 Splitters 85 Custer 86 Black Hawk 87 Acorn 88 Cloverleaf or Hun
 Husker 89 Middle West Sunflower Wood's Own or Wood's Orphans,
 90 Alamo 91 Wild West 92 Buffalo or The Buffaloes (colored) 93
 Negroes or Bloody Hand (colored)
 Gt Brit 9 Scottish 10 Irish 12 Eastern, 20 Light 37 Golden Horse-
 shoe 42 East Lancashire 46 North Midland 50 Northumbrian 51
 Highland 52 Lowland 53 Welsh 55 West Lancashire 58 London,
 62 West Riding 63 Royal naval (see also N Marine corps) 74
 Yeomanry (see also H Cavalry) Many British units were consti-
 tuted on territorial bases (see F Colonials territorials etc)

F **Colonials territorials etc**

To be used for classing such forces under mother country. Divided
 geographically like 940-999 and under each local division arranged by book
 number scheme here given e.g. 940 41242 F71G11 for 11th regiment of
 Canadian infantry as part of British colonial forces. If preferred colonials
 may be classed directly under their respective geographic numbers disregard-
 ing relation to mother country e.g. 940 41271 G11 for 11th regiment of
 Canadian infantry

Gt Brit Anzacs (Australia New Zealand army corps) West Riding
 territorials (constituting 49th and 62d divisions of British army,
 see E) etc

France Moroccan divisions (Division marocaine) etc

G Infantry

Pioneer regiments headquarters troops, guards, zouaves etc. For some regiments etc with distinctive names numbers as follows

U S 38 Rock of the Marne, 65 Puerto Rico regiment 165 Shamrock battalion 167 Alabama's Own, 313 Baltimore's Own 321 Wildcats (also name of 81st division see E), Lost battalion. A company of 307th regiment and 6 companies of 308th (also with 308th)

Gt Brit The Buffs, 10th battalion of yeomanry (constituted by combining Royal E Kent regiment with Royal W Kent (Queen's Own) regiment see note on yeomanry under H), Prince of Wales' Own 10th battalion of infantry (W Yorkshire regiment), Alexandra Princess of Wales', Own, 7th battalion of infantry (Yorkshire regiment), U P S (University and Public Schools brigade) 98th brigade of Royal fusiliers Black Watch (Royal Highlanders) 42d regiment (Royal Highlanders of Canada mostly from Montreal, were an allied regiment) Gordon Highlanders formed part of 51st (Highland) division (see E) Guards regiments were unnumbered, e.g. Royal guards Grenadier guards Irish guards, Scots guards, Welsh guards. Many units were designated geographically, e.g. London regiment, Northumberland fusiliers, Argyll and Sutherland Highlanders (Princess Louise's) Royal Scots (Royal regiment), Nottinghamshire and Derbyshire regiment (Sherwood Foresters) South Wales Borderers etc

Canada Princess Patricia's Canadian light infantry ('Princess Patricia's', Princess Pats 'P P's', 'Pip-Pip', 'P P C L I') not numbered Red Watch, 48th Highlanders Prince of Wales Leinster regiment (Royal Canadians)

Newfoundland Blue Puttees (The 1st 500) 1st (Newfoundland) regiment

France Foreign legion (Légion étrangère)

H Cavalry

Gt Brit Hussars, dragoons etc. Yeomanry are normally volunteer territorial cavalry but during World war many units were reconstituted as infantry (see G)

J Light artillery Field artillery

For some units having distinctive names numbers as follows

U S Fighting battery C, same as Battery C of 102d regiment, Miracle battery, Battery F of 102d regiment, Orphan battery Battery E of 128th regiment. When distinction beyond regiment number is needed a capital letter designating special battery may be used e.g. Battery C of 102d regiment 940-41273 J102C for a single history of a regiment as a whole the book number may end with regiment number, but if there are 2 or more such histories these may be brought them before histories of separate batteries be grouped under lower case 'a' followed by lower case initial of author e.g. History of 102d regiment by Carter 940-41273 J102ac

Gt Brit Honourable artillery company of London, or London gunners, 399th siege battery

DECIMAL CLASSIFICATION

- K Heavy artillery Coast artillery
- L Machine gun regiments or battalions
- M Chasseurs
 Belgium Chasseurs à pied
 France " " " (Blue devils, Diables bleus) Chasseurs
 alps. Chasseurs cyclistes
 Italy Bersaglieri
- N Marine corps
 For land operations only For naval operations see 940.45
 Gt Brit Royal marine forces Royal naval division (see also E Gt
 Brit 63d division)
- P Gas regiments
 Chemical warfare service
- Q Tank corps
- R Engineers
 Searchlight engineers, camouflage section, railroad section, etc
 U S Trenton & Own, 104th regiment
- S Signal corps
 Field signal battalion, telegraph battalion etc For air service see 940.441
- T Military police
 France Gendarmerie
 Italy Carabinieri
- U Reserves
- V Transport service
- Vm Motor transport corps Repair units
- Vo Ocean transport Embarkation service
 Class embarkation camps as under B e.g.
 940.41273 Vo747 N Y Camp Mills Mineola, L I
 749 N J " Merritt Dumont
 755 Va " Hill and Camp Stuart, New
 port News
- Vr Railroad transport
- W Supply service
 Quartermaster's department, Ordnance department motor supply trains,
 etc
- X Ammunition trains
- Z Other
 For medical corps, sanitary corps ambulance corps see 940.475 air
 service 940.440 navy 940.439. Above book number scheme may so far
 as applicable be used for arranging material on these services, e.g.
 940.44973 B U S aviation training camps
 B764 Tex Camp Kelley San Antonio
 773 Ill Chanute field Rantoul
 794 Cal Rockwell field San Diego
- 940 413 Military organizations of Teuton forces or Central
 powers
 Divided geographically and by book number like 940.413 Bavarian troops
 are numbered separately from other German troops, i.e. German
 940 41343 Bavarian 940.413433
 Germany Uhlans, H Jägers, Alpenkorps, M Reserve-korps, Ersatz
 regiment, Landsturm, Landwehr U

- 940 414 Europe
- 3 German fronts
- 4 French front Including general West front
- 5 Italian "
- 7 Russian " Including general East front
- .415 Asia
- .416 Africa
- 42-43 Special campaigns and battles
- .421 Campaign of 1914
- .421 Belgium Aug 2-11
- Aug 2 Germans invade Luxemburg
- 2-7 " besiege and take Liège
- 4-5 Belgians defend Visé
- .4212 Belgium Aug. 12-Sep. 27
- Aug. 12 Battle of Haelen
- 15 Engagement at Dinant
- 17 Germans enter Tirlemont
- 19 " " Louvain
- 20 " occupy Brussels
- 21 " " Tamines, attack Namur
- 22-29 Battle of Charleroi
- Aug 22 Germans take Charleroi
- 23 Battle of Mons Belgians evacuate Namur
- Sep. 3 Germans occupy Hurson
- 27 " " Malines
- .4213 Belgium Sep 28-Dec.
- Sep 28-Oct 9 Germans besiege and take Antwerp
- Oct. 10-18 British in Lys valley
- 11 Germans occupy Ghent
- 11-Nov. 20 Battles of Flanders
- Oct. 11-Nov. 17 1st battle of Ypres, or
Ypres Armentières
Operations round Menin,
Gheluvelt and Le Gheir
- Oct 14 Allies occupy Ypres and
Bruges
- 15 Allies occupy Ostend
- Nov. 1 Germans take Wytschaete
and Messines
- 11 Germans take Dixmude

DECIMAL CLASIFICATION

Campaign of 1914 *continued*

040-4213

Belgium Sep 28-Dec *continued*

Oct 16-31 Battle of Yser river (Nieuport, Ramscappelle)

Dec 28 French occupy St Georges, near Nieuport

4214

Northern France Aug 10-29

Aug 10-29 Battle of the Ardennes

Aug 10 French and German troops clash round Longwy, Spincourt, etc

25-26 Battles of Landrecies, Maroilles and Le Cateau

26 Germans take Longwy

26-28 Battle of the Meuse

28 Battles of Signy l'Abbaye

29 Battle of Guise

4215

Northern France Aug 30-Sep 9

Aug 30 Germans take Amiens, Montmédy, Laon and La Fère

Sep 1 Germans in Compiègne

1-9 Fighting on the Ourcq

2-5 Germans advance to gates of Paris

3 " occupy fortified position of Condé

4 " " Reims

4216

Northern France Sep 6-17

Sep 6-12 Battle of the Marne

Sep 7 Germans begin retreat from the Marne, take Maubeuge

9 Foch's decisiv thrust at Les Marais de St Gond Battle of La Fère Champenoise

12 German retreat halted on the Aisne

12-17 Battle of the Aisne

4217

Northern France Sep 13-Dec

Sep 13-27 Battle of Soissons

Sep 18 Germans bombard Reims

30-Oct 18

Battles in Artois

Sep 30-Oct 8 1st battle of Arras

Oct 3-12 Operations in Lys valley

3-13 Germans take Tournai, Douai and Lille

16 Allies occupy Armentières

Dec 7 French take Vermelles

4218

Eastern France

Aug 22 Battle of Ste Geneviève

24 " " the Trouée de Charmes

29-Sep 9 " " Nancy, or Grand Couronné

Sep 21 Germans occupy Les Eparges

23 " take Varennes en Argonne

25 " " St Mihiel, storm 1st outer Verdun fort, Camp des Romains

Dec. Le Bois-le-Prêtre Fighting round Belfort, Verdun and St Mihiel

Campaign of 1914 *continued*

940.4219

Alsace-Lorraine

Aug 7	Entry of French troops	French take Altkirch and Mulhausen
8	French and German troops clash in the Vosges	
9	French evacuate Mulhausen	
18	" take Saarburg and Chateau Salms	
19	2d French entry into Mülhausen	
20	Battle of Metz, or Metz Saarburg	
22	Engagements at Réméréville	
25-Sep 12	Germans conquer Lorraine	
Aug 25	French driven from Lorraine	evacuate Mulhausen
27	Alsace cleared of French troops	
29	Germans take Manonviller	
Sep 11	French evacuate St Dié	
Dec 29	French begin new offensiv against Alsace	

4221

East Prussia

Aug

Aug 1	Russians advance to Johannisburg
19-20	Battle of Gumbinnen
24	Russians occupy Insterburg and Allenstein
26-31	Battle of Tannenberg (or Osterode)
Aug 26-28	Russians defeated near Hohenstein
27	Battle of Usdau

4222

East Prussia

Sep-Dec

Sep 7-10	Battle of Masurian lakes
11	Russians defeated at Lyck
13	" " in battle of Allenstein
Nov 12	" occupy Johannisburg
14	Hevy fighting between Soldau and Statlupocnen

4223

Poland

July 31 Nov 5

July 31	Austrians occupy Lublin
Aug 1	Russians advance to Biala
4-8	Destruction of Kalisz
23	Austrian victory over Russians at Krasnik
Sep 9-Nov 5	Battles of the Vistula San
Sep 10-Nov 5	Battles of Warsaw and Ivangorod
Oct 13-Nov 2	Battle of Chyrow
27	Russians reoccupy Lodz and Radom
31-Nov 2	Battle of the Opatowka
Sep 26-Oct 2	Battle of Augustowo

Campaign of 1914 *continued*

940.4224

Poland Nov 6-Dec

- Nov 12 Russians defeated at Wloclawek
 17-Dec 15 Battle of Lodz Cracow
 Nov 17-Dec 1 1st battle of Lodz
 Nov 24 Austrians take Pilica
 Dec 1-15 2d battle of Lodz
 For battle of Limanova Lapanov
 see 940.4225 Dec. 3 12
 Dec. 4-12 Germans take Czentochowa Lodz and Przasnysz
 18 Germans take Lowicz
 20 Severe fighting between Germans and Russians on line of Bzura river Germans take Skierniewice
 27 Germans occupy Mlawa

-4225

Galicia

- Aug 25 Russians invade Galicia
 26-27 Battle of Zloczów
 27-Sep 3 Russians take Tarnopol and Halicz
 29-30 Battle of Przemyślany
 Sep 1 " " Lemberg
 3 Russians occupy Lemberg
 12 Battle of Grodek Rawa Ruska
 18-Oct 9 1st siege of Przemyśl
 22 Russians take Jaroslav
 27 " " Czernowitz
 Nov 6-Mar 2 2d siege of Przemyśl
 For battle of Cracow see 940.4224 Nov 17
 Dec 15 Battle of Lodz-Cracow
 Dec 3-12 Battle of Limanova Lapanov
 21-25 " " Jaslo

-4226

Russia in Europe (excluding Poland)

- Sep 7 10 Russians defeated at Vilna
 Nov 8 Turks defeat Russians in the Caucasus
 Dec 1 " advance on Kars and Ardahan

-4227

Serbia

- July 29 Austrians bombard Belgrade
 Aug 15 " enter Serbia
 16-19 Battle of the Yadar (Jadar)
 17 Serbs victorious in battle of Shabatz
 Sep 1-13 " invade Syrmia Hungary
 Sep 10 Serbs take Semlin
 Oct 31-Dec 15 Kolubara campaign
 Nov 15 Austrians take Valjevo
 Dec. 2 " occupy Belgrade Battle of the Ridges
 15 Austrians evacuate Belgrade

-4228

Albania

- Dec 25 Italian marines occupy Avlona

-4231

Turkey in Asia

- Nov 22 British from India occupy Basra

-4233

East Asia

- Sep 28 Japanese British forces attack works of Tsingtau
 Nov 7 Japanese take Tsingtau

Campaign of 1914 *continued*

940-4234

Egypt

- Oct 31 Bedouin tribes invade Egypt
 Nov 12 Turks take El Arish
 20 " and British clash 30 miles from Port
 Said

-4235

North Central Africa

- Aug 7 British occupy Lorne, in Togoland
 26 " and French conquer Togoland

-4236

British East Africa German East Africa

- Aug 15 Germans take Taveta
 Sep 12 " " Karungu
 Nov 2 British invade German East Africa
 4 " defeated at Tanga

-4237

South Central Africa

- Oct 1 Allies invade Kamerun
 Nov 20 Germans " Uganda

-4238

South Africa

- Aug 20 Beginning of German failure in Nyasaland
 Oct 15 South Africa rebels defeated at Raterdrai
 27 South African sedition spreads, Gen De Wet
 and Gen Beyers in revolt
 Nov 4 British reverse in South Africa
 Dec 1 Gen. De Wet captured

-4239

German Pacific islands

- Sep 11 Australian expedition siezes German hed
 quarters in German New Guinea
 14 British occupy Herbertschoeche in Bismarck
 arkipelago
 30 New Zealanders occupy German Samoa

424

Campaign of 1915

4241

Belgium

- Ap 17 British take Hill 60
 22-27 2d battle of Ypres
 Ap 22 German success with gas
 June 3 Battle at Hooge
 Aug 9 British success at Novge, near Ypres

-4242

Northern France Jan-Feb

- Jan. 8 Battle of Souissons begins
 14 Germans capture hights of Vregny

-4243

Northern France Mar-Dec

- Mar Oct Battles in Artois
 Mar 10-13 Battle of Neuve Chapelle
 Mar 10 British take Neuve Chapelle
 May 9-20 Battles of Aubers ridge and Festubert
 May 9 Attack on Rue du bois
 16 Battle of Festubert begins
 12 Battle of Cambrai St Quentin French
 take Carency
 June 6 Allies take most of the 'Labyrinth',
 north of Aisne
 9 Allies take Neuville-St Vaast, near
 Arras
 Sep 25 French take Souchez
 25-28 Battle of Loos

DECIMAL CLASIFICATION

Campaign of 1915 *continued*

940-4244

Eastern France Jan.-Sep 8

Jan 24-Apr 30 1st German assault on Verdun
1st phase Douaumont and Vaux and forts west of the Meuse
Apr 7 Germans surrender Les Eparges
Feb 16-Mar 11 French offensiv in Champagne
July 14 Germans advance in the Argonne
Sep 8 " take trenches in "

-4245

Eastern France Sep 9-Dec

Sep 24-Dec 15 Operations in Champagne
Sep 29-Oct 1 French progress in Champagne
Oct 6 " take Tahure and
Butte de Tahure (Tahure hill)
24 French take the Courtine
south of Tahure
30 Germans retake Butte de
Tahure

-4246

Alsace-Lorraine

Jan 3 French take Steinbach
9 " lose "
17-18 " advance close to Metz

June 22-Dec 24 Activity in the Vosges

-4248

Austro-Italian front

May 26 Italians invade Tyrol and Carinthia
27 " take Ala cros Isonzo near
Gorizia (Goeritz)
28 Italians take Grado
June 4 " " Monte Nero, Upper
Isonzo
9 Italians attack Gorizia and take Mon
falcone and Plava
11 Italians take Gradisca on the Isonzo
12 " reach Rovereto and Mori, in
the Trentino
July 7 Italians attack Gorizia
17 " take Venerdolol and Brizee
passes
Oct 14 Italians take Pregasina on Trentino
frontier

18-Nov 15 Battle of Gorizia

-4251

East Prussia

Feb 7-21 Masurian winter battle
Feb 15-18 Battle of Augustowo
20 Fighting on Niemen (or Memel) river
Mar 17 Russians occupy Memel
21 Germans retake "

Campaign of 1915 *continued*

940.4252

Poland

- Jan. 3 Germans take Bolimov
 18 Russians reoccupy Plotzk (Plock)
 Feb.-July Struggle for Przasnysz
 Feb. 1 Germans retake Borzymow (Borzymow)
 2-3 Russians advance on Warsaw
 June 29 Germans take Tomaszow
 July 1-Oct 21 Southern drive
 July 1-14 2d battle of Krasnik
 July 2 Austrians take Krasnik
 15-24 Battle of Sokal
 16-19 " " Krasnostaw
 30 Germans take Kholm (Cholm)
 and Lublin
 Aug. 5-8 Battle at Lubartow
 12 Germans take Siedlce
 Oct. 21 Austro-Germans defeated at
 Novo Alexinetz
 July 15-Aug. 22 Northern drive Battles of the
 Narew
 July 15-17 Battle of Bogate
 22-25 Battles of Rozhan and Kami-
 onka
 23-25 Battle of Pultusk
 26-Aug. 3 Battle of Orz (or Goworo-
 wo)
 Aug. 5-22 Germans take Warsaw, Ivan-
 gorod (Iwangr6d), Novo Geor-
 giewsk and Osowiec

-4253

Galicia

- Jan.-May 2 Battles of the Carpathians
 Jan 4 Russians occupy Uzsok pas
 27 Austrians take " "
 Feb 1 Battle begins at Bolimov
 3 Austrians evacuate Tarnow
 24 Russians driven from Buko-
 wina
 Mar. 3 Austrians take Stanislaw
 22 Przemyśl surrenders to Russians
 23 Russians take Lupkow pas
 31 " penetrate Dukla pas
 Ap. 4 Russians take Varecze pas and
 Smolnik, near Lupkow pas
 18 Russians evacuate Tarnow
 26 " defeated in Uzsok pas
 May 2 Austro-Germans take Dukla pas

Campaign of 1915 continued

940-4253

Galicia continued

- May 2-June 16 Battles of the Dunajec-San
 May 6 Austro Germans retake Tarnow
 6-11 Battles at Sanok and Rzeszów
 16 Russians retire to the San
 Germans take Jaroslav
 24-31 Battle on the Stryj
 24-June 6 " of Przemyśl
 June 3 Teuton forces retake Przemyśl
 June 12-15 Battles of Mosiska and Luba
 czów
 June 10 Germans retreat across the Dniester
 16-19 Battle of Grodek Magierow
 20 Austro Germans take Rawa Ruska
 20-22 Battle of Lemberg (or Lvov)
 June 20 Austro-Germans take Żółkiew
 22 Austrians enter Lemberg
 26-30 Battle on the Gnula Lipa
 28 Teuton forces retake Halicz
 Aug 28 Germans take Lipsk
 Sep 1 Teuton forces take Brody
 7-8 Russians victorious on Sereth river
 Dec. 1 Russians retake Czernowitz

-4254

Russia in Europe (excluding Poland)

- Jan 1-Mar 25 Turks meet reverses in the Caucasus
 Jan 3 Russians defeat Turks at Ardahan
 4 " victorious at Sarikamysch
 15 " take Kirlibaba pas
 Mar 25 Turks defeated at Aradabil
 May 8 Germans occupy Libau
 July 20-Aug 17 " take Windau, Mitau and
 Kovno
 Aug 23-26 Teuton forces take Kovel, Brest-
 Litovsk, Ossowitz and Olita fortress
 31 Austrians take Lutz
 Sep Austro-German offensiv against
 Rovno
 2-18 Germans take Grodno, Dubno, Pinsk
 and Vilna
 24 Russians retake Lutz
 28 Germans " "
 Oct. 10-24 Operations about the Dvina
 Oct 10 Germans expelled from Gar
 bounovka near Dvinsk
 16 Russians repulst at Gross Eckau
 18-24 Germans take Borkowitz and
 Dahlen
 Nov 14 Russians driven across Styra river

Campaign of 1915 *continued*

940-4255

Rumania

Oct 23 Bulgars cross Timok river and occupy Prahova

-4256

Serbia

Oct 6-Dec 5 Serbia invaded by Austro Germans and Bulgars

Oct 8 Serbs evacuate Belgrade

9-14 Austro Germans take Belgrade Semendria (Semendrevó) and Pozarevatz

15 Fighting between French and Bulgars at Valandovo

17 " take Egri Palanka

18 Austro-Germans take Obrenovatz Allies take Strumitza (Struminitza)

19-22 Bulgars take Vrania (Vranja) Veles and Uskub

23-24 Battle of Kumanovo (Komanova)

25 Austrians take Kladovo

26 Teuton forces take Valjevo

29 Bulgars take Pirot

31 Germans take Kragujevatz

Nov 3 " " Uzice (Uzhitze, Uzitsha)

5 Bulgars take Nish Germans take Krahevo

7 Germans advance at Kruchevatz (Krusevac)

17 Serbs retire from Prilep and Babuna heights

20 Fall of Novibazar (Novipazar, or Yenibazar)

23 Teuto Bulgars take Mitrovitsa and Pristina

30 Bulgars take Prisrend

Dec 5 Austro-Germans and Bulgars occupy Monastir

Oct 5-Dec 10 Salonika (Greece) campaign operations
The Salonika is in Greece these operations are included here as being designed for relief of Serbia

Oct 5 Allies land in Salonika

6 French advance into Serbia

Dec 5 Bulgars defeat French on the Vardar

10 Allies retreating from Serbia, fall back on base at Salonika

-4257

Montenegro

Dec 1 Teuton forces invade Montenegro

6 Germans take Ipek

-4258

Albania

Dec. 15 Italians land in Albania

21 occupy Durazzo

Campaign of 1915 *continued*

940.4259

Turkey in Europe

- Feb 1915 Jan 1916 Gallipoli expedition
 Feb Mar Dardanelles operations
 See also 940.455 Naval history of World war
 Ap 25 Allies land in Gallipoli
 May 20 " take Krithia heights
 Aug Operations on Anafarta heights
 Aug 7 New Allied army lands in Gallipoli
 Dec 8 British begin evacuating Gallipoli

-4261

Turkey in Asia

- Ap 14 Turks defeated near Basra
 June 3 British take Amara
 July 25 " " Nasiriyeh
 Sep 28 " " Kut el Amara
 Nov 22 " " Ctesiphon
 30 " Mesopotamian expedition defeated
 south of Bagdad
 Dec 3 Turks besiege British at Kut-el Amara
 11 Turco British battle " "

-4264

Persia

- Jan 30 Russians take Tabriz from Turks
 Dec 17 " occupy Hamadan
 26 " " Kashan

-4266

Egypt

- Jan 24 Turks defeated at El Kantara

-4268

Colonial operations

- Jan 14 Union forces occupy Swakopmund German
 Southwest Africa
 Feb 24 British South African forces occupy Garub
 German Southwest Africa
 Ap 20 Union forces take Keetmanshoop German
 Southwest Africa
 May 12 Gen Botha occupies Windhuk German
 Southwest Africa
 June 28 British occupy Ngaundere, Kamerun
 July 15 Conquest of German Southwest Africa com-
 pleted

427

Campaign of 1916

-4271

Belgium

- Feb 8-July 18 Trench fighting in Ypres salient
 Ap British take St Eloi

-4272

Northern France

- July Nov Battle of the Somme
 July 2-28 British take Fricourt Pozières
 and Delville wood
 Sep 3 18 French take Guillemont Vermond-
 villers and Deniécourt
 26 Allies take Combles and Thiepval
 Nov 7-12 French take Chaumes and Sailly
 12-18 British drive on the Ancre
 Nov 14-18 British take Beaucourt
 and Grandcourt

Campaign of 1916 *continued*

Eastern France

Feb 21	Dec	Battles at Verdun
Feb 21		Great German attack opens
25		Germans take Douaumont fort
28		French check German advance
Mar		Germans take Forges, Fresnes, Haucourt hill and Malancourt
Ap 2-3		Germans take and lose Caillettes wood
5		" " Haucourt
May 6		" launch new offensiv
22-24		French retake and lose Douaumont fort
24-June 25		Germans retake Cumieres, Vaux fort, Thiaumont and Fleury
June 30		French retake Thiaumont
July 3		Germans " "
Aug 5-9		Thiaumont contested
18		French retake Fleury
Oct 24		" " Douaumont fort
Nov. 2		" " Vaux fort

-4274

Austro-Italian front

Feb-June Tyrol

Feb 21		Italians take Collo, near Trent
Ap 17		Italians take Col di Lana
May 16-June 20		Successful Austrian offensiv from the Trentino
Mar-Nov		Isonzo and Carso
Mar 14		Italians attack on entire Isonzo front
Aug 1		Italian offensiv against Gorizia (Goeritz)
6		Italians take Monte Sabotino and Monte San Michele
7		Italians gain the Isonzo
9		" take Gorizia
10		" drive Austrians across the Vallone
Sep-Nov		Italians assume offensiv on the Carso

-4275

Galicia

Jan. 1		Russians invade Bukowina
Feb 9		" take Uscieczko
June 17-23		" " Czernowitz and Bukowina
28-July		Battle of Kolomea
July 1		Russians take Kolomea
June 30-July 2		Russians take and lose Tlumacz (Tlumatch)
July 16-Aug 7		Russians take Svinusky, Brody and Tlumacz
Aug 10		Austrians evacuate Stanislaw
14-15		Russians take Tustobaby and Jablonitz (Jablonica) pas

DECIMAL CLASSIFICATION

Campaign of 1916 *continued*

940.4376

Transylvania

- Sep 7 Rumanians take Orsova
- 28-30 Germans defeat Rumanians at Hermannstadt
- 29 Teuton forces defeat Rumanians at Sibă
- Oct 5 Rumanians defeated near Fogaras
- Battle in Geisterwald mts
- 7-9 " of Kronstadt (or Brasov, or Brasso)
- Nov 25 Rumanians lose Orsova

4277

Russia in Europe

- Mar 18 27 Battle of Lake Narocz (Naroch)
- June-Aug Battles around Luck (Lutsk)
- June 6-9 Russians take Luck and Dubno
- June 13 14 1st battle of Baranovich (Baranowicze)
- July 2-14 2d " " "
- 20 Russians take Beresteczko
- 25 3d battle of Baranovich

4281

Rumania

- Sep 1 Germans Bulgars and Turks invade Dobruja
- 6 Germans and Bulgars take fortresses of Turtukai and Tutrakan
- 9 Rumanians evacuate Silistria
- 10 Germans and Bulgars take fortress of Silistria
- Oct 22-23 Germans take Constanza (Kustendji)
- 24-30 Battle of Targul Jiu
- 25 Teuton forces occupy Cernavoda
- Nov 20 Austro-Germans take Craiova (Craiova)
- 23 " " conquer Little Wallachia
- 24 Rumanians lose Turnu Severin
- Dec 3 Battle of Arges
- 6 Germans take Bucharest
- 8 Rumanians trapped in Prahova valley

4282

Serbia

- Aug 10 Allies bombard and take Dorian
- Nov 19 " enter Monastir

4283

Bulgaria

- Oct 2 Rumanians routed

4284

Montenegro

- Jan 10 Austrians take stronghold on Mt Lovchen (Lovtchen)
- 13 Austrians take Cetinje

4285

Greece

- Jan 11 French land at Corfu
- Aug 17 Teuton forces take Terina from Serbs
- Bulgars take Florina
- 25 " " Startila and Kavala (Kavalla Kavallo) forts
- Sep 14 Bulgars take Kavala Serbs take Malke-
- 18 Allies retake Florina
- Dec 1 " take possession of Piraeus

Campaign of 1916 *continued*

940 4288

Albania

- Jan 23 Austro Hungarians occupy Scutari
 25 Austrians take San Giovanni di Medua
 Feb 27 " " Durazzo

-4289

Turkey in Europe

- Jan 9 Allies evacuate Gallipoli

-4291

Turkey in Asia Asia Minor

- Feb 13 Turks defeat British near Konia (Koniah Koniuh)
 Ap 18 Russians take Trebizond

-4292

Turkey in Asia Armenia

- Jan 11-Aug 24 Russian campaign in Armenia
 Feb 16-Mar 16 Russians take Erzerum
 Mush Bitlis and Mama
 khatun
 Mar 31 Russians evacuate Mama
 khatun
 July 12 Russians retake Mama-
 khatun
 25 Russians take Erzingan
 (Erzhingian Erzincan)
 Aug 8 Russians evacuate Bitlis
 and Mush
 24 Russians retake Mush

-4293

Turkey in Asia Mesopotamia

- Jan. 8 Dec 13 British campaign in Mesopotamia
 Jan 8 British defeat Turks at El Amara
 Ap 5 " take Felahie
 9 " repulst near Felahie
 29 " surrender Kut el Amara
 Nov 31 " take Basra

-4294

Persia

- Feb 27 Russians take Kermanshah
 Mar 19 " enter Ispahan
 Aug 11 Turks drive Russians from Hamadan

-4296

Egypt

- Ap 23 Turks take Quatia
 Aug 3 " defeated at Romani on Suez canal
 Dec. 21 British occupy El Arish Sinai peninsula
 23 " attack Turks at Magdhaba

-4298

Colonial operations

- Feb 18 Allies conquer Kamerun
 Sep 4 British take Dar es Salaam German East
 Africa
 11 Belgians take Tabora German East Africa

431

Campaign of 1917

-4311

Belgium Jan-June 7

- June 7 Battle of Messines Explosion of mine
 British take Messines Wytschaete salient

-4312

Belgium June 8-July 30

- June-Dec. 2d battle of Flanders

Campaign of 1917 *continued*

940 4313

Belgium July 31-Dec

July 31-Nov 6 3d battle of Ypres

July 31 Allies advance from Ypres

Aug 10 " take Bixschoote

16 British " Langemarck

Sep 25 " resume drive on Ypres
Menin road

26 British take Zonnebeke

Oct 4-10 Allies advance on Passchendaele
ridge

Nov 6 Canadians take Passchendaele

.4314

Northern France Jan-Mar

Feb 7 British take Grandcourt

24 Germans retreat from Ancre river

28 Allies take Pusieux au Mont and Tilloy
British take GommecourtMar 17 British attack along Siegfried or Hindenburg
line Allies retake Bapaume French take
Roye British take Chaumes18 French take Noyon British take Péronne
and Nesle

4315

Northern France April-May 8

Ap 9-May 8 2d battle of Arras

Ap 9 Canadians take Vimy ridge

11 British " Monchy

28 Canadians " Arleux en Gohelle

May 3 Allies take Bullecourt British take
Fresnoy

8 Germans retake Fresnoy

.4316

Northern France Ap 16-Nov 2

Ap 16-May 6 2d battle of the Aisne

Ap 18 French take Vailly

May 4 " " Craonne

5 " " Chemin des Dames

6 " occupy Craonne ridge

June 26-Aug 21 Operations round Lens

Aug 15 Canadians take Hill 70

Oct 17-Nov 2 Allies renew Aisne offensiv

Oct 23-26 Battle of Malmaison

Oct 23 French take Malmaison fort
Germans defeated on the
AiletteNov 2 Germans evacuate Chemin des
Dames retreat across the Ailette

.4317

Northern France Nov. 3-Dec

Nov 20-Dec. 13 Battle of Cambrai Introduction of
tank warfareNov 20 British smash Hindenburg line
from Arras to St Quentin

26 British take Bourlon wood

30 Germans counterattack in Cam
brai salient

Dec. 2 Germans retake Masnières

Campaign of 1917 *continued*

940-4318

Eastern France

Aug 17-Sep 8 French win important victories at Verdun

-4321

Austro-Italian front - Trentino

June 10 Italians take Agnello pas

-4322

Austro-Italian front Isonzo Caporetto activities Jan - June

May 12-Oct Italians advance against Austro-Hungarians

May 23 Italian success on Carso plateau

June 5 " defeat " " "

-4323

Austro-Italian front Isonzo-Caporetto activities July-Sep

Aug 19 Italian activity renewed on Julian and Carso fronts Italians invade Bainsizza plateau

24 Italians take Monte Santo

29 " gain complete control of Bainsizza plateau

31 Italians gain foothold on Monte San Gabriele

Sep 6 Austrians drive Italians from " " "

14 Italians take summit of " " "

29 " strengthen control of Bainsizza plateau

-4324

Austro-Italian front Isonzo-Caporetto activities Oct.-Dec

Oct 23-Nov Battle of Caporetto Austro-Germans counterattack

Oct 28-30 Austro Germans take Gorizia (Goeritz), Cividale and Udine

Nov 4 Austro Germans cross Tagliamento river

9 Italians make a stand on the Piave

10 Austro-Hungarians cross the Piave

12 Italians evacuate Fonzaso

13 Austro Germans repulsed on the Piave

Dec. 19 Italians retake Monte Asolone

23 Germans take Col del Rosso

30 French retake Monte Tomba

-4325

Galicia

July 1-16 Russians assume offensive under Kerensky

July 1-6 Battle of Brzezany

July 1 Russians take Koniuchy

10 Russians take Halicz

12-16 " " and lose Kalusz

DECIMAL CLASIFICATION

Campaign of 1917 continued

940-4325

Galicia continued

- July 19-Aug 3 Teuton forces advance against Russians
- July 19-26 Battle of Zborów
- July 22 Germans take Tarnopol
- 23-Aug 3 Russians retreat
- July 23 Germans retake Halicz and Stanislaw
- Aug 3 Austro-Germans occupy Czernowitz

4326

Russia in Europe

- Ap 3-Dec. 12 German offensives
- Ap 3 Russians defeated on Stokhod river
- Aug 21-Dec Great German offensiv on Riga front
- Sep 3 Germans take Riga
- 23 " " Jacobstadt
- Oct 18 Russians evacuate Reval (Revel)

4327

Rumania

- Jan 4 Russians driven out of Dobruja
- 5-7 Germans take Braila and Fokshani (Focshani Focsaus) fortress
- 8 Battle of Sereth river
- Aug 6 " " Marasesti (Marasheshti)

4328

Serbia

- Ap-May Offensiv in Douran sector British attack Bulgarian positions

4331

Turkey in Asia Palestine

- Oct. 31-Dec 30 British advance in Palestine
- Oct 31 British take Beersheba
- Nov 6 " " Gaza
- 8 Turks evacuate Wadi Hess
- 9 British take Ascalon
- 16 " " Jaffa (Joppa)
- Dec 6 " " Hebron
- 9 " " Jerusalem
- 30 " " Burch

4332

Turkey in Asia Armenia

- Mar 18 Russians take Van
- May 2 " evacuate Mush

4333

Turkey in Asia Mesopotamia

- Feb Oct British advance in Mesopotamia
- Feb 16 British drive Turks from Dabra Bend
- 24 " retake Kut-el Amara
- Mar 4 " reach Bakuba
- 11 " take Bagdad
- May 1 " defeat Turks at Jebel Hamra
- Sep 29 " take Ramadie

4334

Persia

- Mar 3 Russians take Hamadan
- 14 " " Kermanshah
- 22 " " Kerend from Turks

Campaign of 1917 *continued*

940-4335

East Asia

Dec 26 Chinese defeat Russians at Harbin Manchuria

-4338

Colonial operations

Dec 1 British complete conquest of German East Africa

434

Campaign of 1918 Belgium and France Final

German offensives Jan-July

-4341

1st German offensiv 1st phase of battle of Picardy, or
2d battle of the Somme Mar 21 Ap 6

Mar 21 Germans take Maissemy and Ronssoy bombard Paris with long range gun

22 Germans take Epéhy, Le Verguier and Terguier

23 " break thru at St Quentin and Monchy

24 " take Chauny, Ham and Péronne

25 " " Bapaume Barleux Nesle and Noyon reach Courcellette

26 Germans take Roye

27 " " and lose Albert and take Proyart and Montdidier British retake Chipilly and Morlancourt

31 Germans reach the Marne

-4342

2d German offensiv 2d phase of battle of Picardy, or
battle of the Lys Ap 7-May 26

Ap 9 Germans take Laventie and Richebourg l'Avoûé

10 Germans take Armentières Estaires and Ploegsteert wood

11 Germans take Merville Mesennes and Nieppe British withdraw from Hill 63

12 Germans take Locon

12-16 British withdraw from Passchendaele ridge in Ypres salient

14 Germans take Neuve-Eglise

15 " " Baillieu and Villers Bretonneux

16 Germans occupy Spanbroekmolen and Wytschaete

24 British retake Villers-Bretonneux

26 Germans take Mont Kemmel

May 12 French retake Hill 44

-4343

3d (or Aisne and Marne) German offensiv May 27-June 8

May 27 Germans cross Vesle river at Fismes

28 Americans take Cantigny

29 Germans " Soissons Allies abandon Fère-en Tardenois and Ville-en Tardenois

June 3 French retake Choisy

4 Germans driven back across the Marne

6 Allies take Bouresches

7 " " Neuilly la Poterie

DECIMAL CLASSIFICATION

- 940 434 Campaign of 1918 Belgium and France Final
German offensives *continued*
- 4344 4th German offensiv battle of Noyon or battle for
Compiègne June 9-July 14
June 9 Germans reach Marcul
10 Americans take Belleau wood Germans take
Belloy, Méry and St Maur
11 French abandon Carlepont wood and Ourscamp
forest
15 Germans driven out of Cocuvres et Valsery
July 1 Americans take Beau Repaire farm, Berzy le
Sec, Vierzy and Vaux
4 Alhes take Hamel and Vaivre wood
8-11 British victories in Picardy
- 4345 5th German offensiv. 2d battle of the Marne July 15-18
- 435 Campaign of 1918 Belgium and France Allied
offensiv 1st period July 18-Sep 24
- 4351 Marne salient July 18-Aug. 4
July 18 Americans take Torcy
19 Germans begin retreat across the Marne
British take Meteren
21 Alhes take Bouilly, Château Thierry and Mont
St Père hights Americans take Chartèves
and Jaulgonne
23 French take Aubvillers, Mailly Rameval and
Sauvillers
24 Americans retain Epieds
- 4352 Marne salient *continued* July 25-Aug 4
July 25 Alhes take Comcy French take Hill 141
and Oulchy la Ville
26 French take Oulchy le-Château
27 Americans reach the Ourcq
28 Alhes cross the Ourcq
29 " take Fère-en Tardenois Americans
take Hill 230
30 Americans take Sergy and Seringes
Aug 1 Alhes " Cramoiselle Franco-Ameri
can forces take Cierges
2 Alhes take Ville-en Tardenois Coulonges
Gueux and Thillois French occupy Soussons
4 Alhes take Fismes
- 4353 Somme salient Aug 5-Sep 12
Aug 8-25 Albert-Montdidier salient Battle of
Amiens
Aug. 10 Alhes take Chipilly ridge, Lahons,
Montdidier and Morlancourt
11 Alhes take Proyart
13 French " Canny-sur Metz
14 " " Ribécourt
15 Canadians " Daméry and Parvillers
19 French " Le Hamel

940 435

Campaign of 1918 Belgium and France Allied
 offensiv: 1st period *continued*

-4353

Somme salient Aug 5-Sep 12 *continued*

Aug 21 Alhes take Mont Kemmel British take
 Ablainzeville, Achiet le-Grand, Achiet le-
 Petit, Beaucourt, Bucquoy, Courcelles
 and Moyenneville French take Camelin,
 Cuts, Pontoise and Lassigny Battle of
 Bapaume
 22 British take Albert (Ancre)
 24 " " Bray and Thiépval
 25 " " Contalmaison, Le Sars, Ma-
 metz and Martinpuich

-4354

Somme salient *continued* Aug 26-Sep 6

Aug 27 French take Roye
 28 " " Chaumes
 29 " " Noyon British take Combles
 Germans lose Bapaume
 30 Allies take Cuffies Americans take Chavigny
 and Juvigny
 Sep 1 British take Bouchavesne, Péronne and Ran-
 court
 6 French take Chauny and Ham

-4355

Somme salient *continued* Aug 26-Sep 12 Battle of
 the Scarpe

Aug 26 Canadians take Wancourt and Monchy le-
 Preux
 27 Canadians take Chersy, Vis-en-Artois and
 Bois-du-Sart Scots take Fontaine-les
 Croisilles, Roeux and Gavrelle
 28 Canadians take Croisilles Boury and Pelves
 30 British " Bullecourt
 Sep 2 " attack Drocourt Quéant line
 3 " take Quéant
 4 Germans evacuate Lens
 12 British take Havrincourt and Trescault

-4356

Lys salient Aug 5-Sep 11

Aug 5 British take La Bassée
 5-7 " advance take Locon and Outter-
 steene
 19 British take Merville
 30 " " Bailleul
 31 " " Mont Kemmel
 Sep 2 Americans take Voormezeele British take
 Neuve-Eglise

-4357

St Mihiel salient (Allies) Sep 12-24

Sep 12-14 Battle of St Mihiel

Sep 12 Americans destroy German St Mihiel
 salient

15 British take Mausermy
 20 " " Moeuvres

DECIMAL CLASSIFICATION

940 436	Campaign of 1918	Belgium and France	Allied
	offensiv	2d period	Sep 25-Nov 11
-4361	Argonne-Meuse offensiv	1st phase	Sep 25-Oct 10
	Sep 26	Americans smash Hindenburg line in the Argonne, take Cheppy, Gercourt, Varennes and Montfaucon advance at Guicy	
		French take Butte de Mesnil, Navarin farm and Servon	
	27-28	Americans take Exermont, Ivory, Epinonville Charpentry, Very, Marcheville and Rieville	
	28	Allies take Poelcapelle	French take Chemin des Dames Fort Malmaison and Somme Py British retake Passchendaele
	29	Americans take Brioules sur Meuse Belgians take Dixmude	
	30	Allies take Romagne	Americans take Apremont
-4362	Argonne-Meuse offensiv	1st phase continued	Sep 16-Oct 10
	Oct. 10	Battle of Cambrai-St Quentin	
	Sep 27	Americans cross Canal du Nord	
	28	" take Marcoing, Fontaine-Notre-Dame, Cantaing and Noyelles	
	29	Americans take Bellicourt, Nauroy, Oppy and Biache-St Vaast	
	30	Allies take Thornigny and Le Tronquoy	
	Oct 2	Allies take St Quentin	
	9	" " Cambrai	
	10	" " Le Cateau and St Souplet	
-4363	Argonne-Meuse offensiv	2d phase	Oct. 1-31
	Oct 2	Belgians take Handzaeme and Hoogdele British take La Bassée and Rolleghecapelle	
	2-9	Americans drive Germans from Reims region	
	3	Germans evacuate Armentières and Lens	
	4	" take Gesnes	
	5	French " Brumont fort	
	7	Allies " Berry au Bac and St Etienne	Americans " Brancourt, Chatel Cléhéry Consenvoye, Haumont woods and Prémont
	8	Allies gain complete possession of Siegfried zone or Hindenburg line	
	9	Americans take Fléville	British take Ramillies
-4364	Argonne-Meuse offensiv	2d phase continued	Oct 10-17
	Oct 11	Americans take Vaux Andigny	
	12	French " Vouziers	
	13	" " La Fère, Laon and St Gobain Massif	
	14	Allies take Roulers (Rousselaere)	Americans encounter Kriemhilde line, take St Juvin
		French take Sissonne	

940 436

Campaign of 1918 Belgium and France Allied
offensiv. 2d period *continued*

-4364

Argonne-Meuse offensiv 2d phase Oct 10-17 *continued*

Oct 15 Allies take Olzy, Termes Thourout and
Comines British take Menin

16 Americans take Grandpré British take
Wervicq and Wevelghem

17 Allies take Bruges and Ostend Americans
take Côte de Chatillon British take Douai
and Lille

-4364

Argonne-Meuse offensiv 2d phase *continued* Oct 17-31

Oct 17-25 Battle of Selle river

18 Allies take Blankenberghe, Thielt Wassigny
and Zeebrugge British take Roubaix
and Tourcoing Americans take Banthe
ville

19 British take Denain

26 " " Englefontaine and Famars

31 Americans " Bellejoyeuse farm

-4366

Argonne-Meuse offensiv 3d (final) phase Nov 1-11

Nov 1 Americans take Aincreville, Doullon Ande-
vanne and Landres et St Georges British
take Valenciennes

1-11 Battle of the Sambre

2 Americans take Busancy

3 " " Authe Chatillon sur Bar,
Fosse Nouart, Halles and Spitaals Bosschen

4 British take Landrecies

5 Allies break Hunding line French take
Guise Americans cross the Meuse take
Liny devant Dun and Milly devant Dun

6 French take Rethel Americans take
Woivre heights

7 British reach Bavai Americans enter
Sedan

9 Allies take Tournai French take Hirson
British take Maubeuge

10 French take Mézières and Charleville

Belgians recover Ghent

11 Canadians take Mons

-4371

Austro-Italian front Jan-May

Jan 2-Feb 11 Austro-German retreat

22-24 " " attacks in Trentino
repulsed

28 Italians advance on Asiago plateau
victorious on Col di Chelo (Col
d'Echele) and on Col del Rosso

29 Italians victorious on Monte di Val
Bella

May 10 Italians take Monte Corno

16 " begin new offensiv

27 " take summit of Monte Zig
nolon, in Trentino

DECIMAL CLASIFICATION

Campaign of 1918 *continued*

940-4372

Austro-Italian front June-July

- June 15-16 Austrian offensiv opened on Asiago plateau and in Monte Grappa region
- 19 French take Bertigo and Pennas
- 19-24 Austrians driven across the Piave
- 29 Italians take Sasso Rosso and Monte di Val Bellia
- 30 Italians take Col del Rosso and Col di Chelo (Col d'Echele)
- July 16 Last of Austrians driven across the Piave
- 19 Italians take Castalunga
- 20 " reoccupy Cornò di Cabento and Monte Stabiel
- 24 Great Italian offensiv against Austrians
- Italians take Monte Solarolo French take Monte Sisemol

-4373

Austro-Italian front Aug.-Nov

- Oct 24-Nov 4 Italians crush Austro-Hungarian armies on Venetian front, pushing them back on Friuli plain
- 28 Allies take Alano hights
- 29 Italians " Coneghiano Monte Cosen, Vittorio and Valdobbiadene
- 31 Italians reach Ponte nell' Alpi
- Nov 3 " take Trent, Udine, Trieste and Rovereto

-4374

Russia in Europe

- Jan 28 Rumanians take Kishineff
- 31 Bolsheviks " Kiev
- Feb 1 " " Odesa and Orenburg
- 9 Poles " Smolensk from Bolsheviks
- 15 " defeat Bolsheviks at Bobruisk
- 18 Germans take Dvinsk (Dunaburg) and invade Ukraine
- 20 Turks begin offensiv in the Caucasus
- 21 Germans take Rovno fortress and Minsk
- 25 " " Reval (Revel) and Pskoff (Pskov)
- Mar 2 Germans and Ukrainians occupy Kiev (Kieff)
- 5 " occupy Narva
- 13 " enter Odessa
- 31 " advance in Ukraine take Poltava
- Ap 13 Turks occupy Batum
- 27 " enter Karz
- May 1 Germans occupy Sevastopol
- 19 Moslems and Bolsheviks battle at Baku
- July 8 Czechoslovaks take Nikolsk
- Aug 2 Allies take Archangel
- Sep 11 Czechoslovaks defeat Bolsheviks near Ekaterinburg

-4375

Finland

- Feb 6 White guards occupy Uleaborg
- Mar 14 Germans occupy Abo
- Ap 17 " " Helsingfors

Campaign of 1918 *continued*

940 4376

Serbia

- Sep 15 Allied offensiv between Vardar river and Lake
Doiran begins
24 French take Prilep
26 Serbs and British take Kochana
27 " " " " Veles (or Kopruli)
Oct 12 " take Nish (Nisch, Ni-sa)
16 " " Kragujevatz

-4377

Bulgaria

- Sep 26 British and Greeks invade Bulgaria
27 " take Strumiza (Strumitza)

-4378

Albania

- July 11 French and Italians occupy Berat
20 Albes take Meran and Mt Tizze
Oct 1 Italians retake Berat (lost in Aug)
7 " occupy Elbasan (El Bassan)
14 " take Durazzo

-4381

Turkey in Asia Asia Minor

- Feb 24 Turks take Trebizond
Mar 11 " " Erzerum
Oct 1 British occupy Damascus
7 " take Beirut
26 " " Aleppo

4382

Turkey in Asia Palestine

- Jan 31 British penetrate Mukhmas
Feb 21 " take Jericho
Sep 20 " occupy Nazareth
23 " take Es-Salt
24 " " Haifa and Acre
25 " occupy Tiberias
29 " take Gaza
Oct 6 " occupy Zahlek and Rayak
7 " " Sidon
13 " " Tripoli
15 " " Homs

-4383

Turkey in Asia Mesopotamia

- Mar 26 British advance in Mesopotamia
28 " defeat Turks at Hit
Ap 27 " take Kirkuk
May 7 " " Kirkuk
Oct 28 " " Kalat Sherghot
30 Entire Turkish force surrenders on Tigris

-4384

Persia

- June 14 Turks take Tabriz

-4385

East Asia Siberia

- Ap 5 British and Japanese land at Vladivostok
June 7 Czechoslovaks take Chita
8 " reach Vladivostok
Aug 15 Americans land at "
22 Allies advance in Siberia
Sep 5 Japanese occupy Khabarovsk

-4388

Colonial operations

- Nov 25 Remnants of German forces in German East
Africa surrender

439

Armistice Nov 11, 1918

-4391

Celebrations

- 940 44 Air warfare
 -441 Air servis
 Observat on and scout ng artillery detecting range finding signaling-
 bomb ng land fighting naval fighting antisubmarine coast patrol
 -442 Organized raids
 Special raids ar preferably class under 940.444 -445
 2 On England
 3 " Germany
 4 " France
 -443 Air servis bases
 -444 Events of 1914
 Aug 30 German raids on Paris
 Oct 8 British attack Dusseldorf and Cologne
 Dec. 24 German air raid on England
 25 British ships with hydroplanes raid Cuxhaven
 See also 940.434
 -445 Events of 1915
 Jan Dec. German raids on England
 Feb 12 British aircraft raid Belgian coast
 June 12 Italian aviators destroy arsenal at Pola
 See also 940.4348
 15 French bombard Karlsruhe
 Oct Dec. " " Metz
 -446 Events of 1916
 Jan Dec Paris raided by zeppelins
 Battles of Verdun See also 940.4373
 Jan. 29-31 England raided by zeppelin and airplane
 Mar 15 Italians bombard Trieste See also 940.4374
 20 Allied airplanes bombard Zeebrugge
 Sep 5 Germans bombard Constanza See also 940.4381
 26 " " Bukarest
 Nov 10 1st general air battle of the war
 See also 940.4372
 -447 Events of 1917
 Ap 7 Air battle over Hindenburg line
 See also 940.4314
 24 2d battle of Arras See also 940 4315
 May 18 Battle in the Adriatic See also 940.437
 July 28 Germans raid Paris
 Oct 1 " " London
 20 German zeppelins and French planes battle
 23 26 French aviators fight 611 aerial engagements
 during battle of Marnäson
 See also 940.4316
 Dec. 27 Engagement on Italian front
 See also 940.4374

940-448

Events of 1918

- Jan. Germans raid Paris
 Mar 1 " " Toul See also 940 4349
 25 Allies attack Nesle and Bapaume
 See also 940.4341
 May 23 French attack Ghent See also 940.4342
 July 19-20 Italian victory at Piave See also 940.4372
 Aug-Nov Successful fighting by allied fliers Albert
 Montdidier salient (see also 940 4353) Luden
 dorff offensiv, Marne salient (see also 940 4343)
 Reims offensiv
 Sep 23 Allies bomb Constantinople

-449

History of air warfare

Including special fliers and auships. D vide like 940-997

-445

Naval history

-451

Submarine warfare

- 2 German use of submarine ('U' boat)
 War on neutrals blockade attack on merchantmen and cruisers of
 Allies
 3 Use of submarine by Allies
 Divided like 940-999
 4 Important events
 1915 Feb 18 Germans begin organized submarine
 warfare
 May 7 Lusitania sunk by German submarine
 See also 940 455
 1916 Mar 24 Sussex sunk without warning
 1917 Jan 31 Germany announces unrestricted sub-
 marine warfare
 1918 Feb 16 Raid on Dover
 6 Antisubmarine warfare
 Camouflage chasers mine fields nets Q or mystery boats etc.
 -453 Blockades and blockade running
 Submarine blockade German war zone British embargo and blockade
 contraband
 -453 Naval bases
 British China East Indies, Cape of Good Hope, New
 Zealand Australia
 French Toulon Dunkirk, Brest Calais, Cherbourg
 German Zeebrugge Wilhelmshaven Helgoland Ostend
 Kiel Cuxhaven, Borkum

-454

Events of 1914

- Aug 28 British victory in Helgoland fight
 Oct 19 " bombard Nieuport See also 940 4212
 29 Turkish cruisers bombard Theodosia and Odessa
 Nov 1 German victory in the Pacific off Chilean coast,
 battle of Coronel
 3 German raid into English waters
 10 " cruiser Emden caught and destroyed at
 Cocos Island
 Dec. 8 British victory off Falkland Islands
 16 German warships bombard West Hartlepool,
 Scarborough and Whitby
 25 British ships with hydroplanes raid Cuxhaven
 See also 940-444

940-455

Events of 1915

- Jan. 24 British victory in North Sea, off Dogger bank
 Feb. 2-25 Anglo French squadron bombards Dardanelles
 See also 940 4259
 May 7 Lusitania sunk by German submarine
 Preferably class in 940 4374
 June 2 British on Tigris secure surrender of Kut el-Amara
 Sep 24 British bombard Zeebrugge
 Oct. Allies " Bulgarian coast

-456

Events of 1916

- Ap 17 Russians bombard Trebizond *See also 940 4291*
 May 31 British victory off Jutland
 Aug 9 Italians take Gorizia *See also 940 4274*

-457

Events of 1917

- May 14-18 Battle in the Adriatic *See also 940.447*
 Oct. 18 " " Gulf of Riga

-458

Events of 1918

- Jan 20 British bombard Ostend
 Oct 3 Austrian naval base and warships at Durazzo destroyed
 15-17 British warships enter Ostend *See also 940 4364*

-459

Naval history of special countries *Divided like 940-999*

-46

Celebrations Commemorations

Usually better class with event commemorated. For American patriotic societies of this war *see 369 186*

-461

War meetings

Divided like 940-999

-463

Flag presentations

" " "

-464

Decorations presentation

" " "

-465

Monuments Memorials

" " "

General, of the war or a country's part in it, but class memorials of a special event with that event

-467

Rolls of honor Lists of dead

Divided like 940-999

-47

Prisons Hospitals Charities

-472

Prisons

Divided like 940-999 and including internment camps

-473

Exchange of prisoners

-475

Medical department surgeons, nurses *See also 616 and 617*

3

Sanitary affairs

3

Ambulance companies

4-9

By country maintaining *Divided like 940-999*

-476

Hospitals, hospital sketches

34-39

By country in which located *Divided like 940-999*

4-9

" " maintaining

" " "

WORLD WAR II 1939—

(Supplement to Decimal Classification and Relative Index by Melvil Dewey ed 14 1942)

NB *References to this war and to the World war I
are entered in the Relative Index under European war*

940 53-54

World war 2

1939—

The following outline is based on 940 3 4 Tho a definitive scheme cannot be
provided before the war is over the most important subdivisions are given
below

SUMMARY

940 531	Political history
532	Diplomatic history
533	Groups of countries allies and neutrals
534 539	Individual countries
54	Military history
541	Land operations
542	Special campaigns and battles
544	Air operations
545	Naval operations
546	Celebrations commemorations
547	Prisons hospitals welfare work
548	Personal narratives secret service propaganda
549	Illustrative material

940 531

Political history

Class here temporarily war aims and peace aims e.g. "Atlantic Charter"
See also 940 53144 Reconstruction

- 1 Causes
 - 12 Historical political and diplomatic causes
 - 13 Economic causes
- 2 Efforts to preserve or restore peace
 - See also 940 532 Diplomatic history
- 29 By country
 - Divided like 940-999
- 4 Results terms of peace
 - (To be used with proper subdivisions after adoption of peace treaties)
- 44 Reconstruction
 - Class here plans problems and discussion in general of the post-war world
- 5 Relations of various classes
 - Subdivided like the whole classification using 9 for refugees divided like
940-999 by country of origin e.g. 940 53159438 Polish refugees See also
940 5316
- 52 Clergy Church
 - Subdivide 940 53152-528 like 280 but use 940 5315289 for sects in 289 e.g.
940 531521 Greek Catholic church
940 531522 Roman Catholic church Pope
940 53152895 Christian scientists
Use 940 531529 like 290 e.g.
940 5315296 Jews
940 5315297 Mohammedans Holy war

DECIMAL CLASIFICATION

- 940 5316 Other special classes
- 61 Noncombatants Children
 - 62 Pacifists Conscientious objectors
 - 63 Enemy sympathizers
 - For saboteurs spies and "Fifth column" see 940 5485
 - 8 Relations of special interests Aspects
 - Divided generally like the classification, e.g. Economic aspect 940 531833
- .532 Diplomatic history
- See also 940 531 Political history
 - 2 United Nations
 - Including anti Axis nationalist groups e.g. Free French movement Divided like 940-999
 - 4 Axis Powers
 - Including pro-Axis nationalist groups, e.g. Quisling movement. Divided like 940-999
 - 5 Neutrals
 - Divided like 940-999
- 533 Groups of countries: allies and neutrals
- Collectively for individual countries see 940 534- 539
 - 2 United Nations 6 Occupied countries Occupation
 - 4 Axis Powers 7 Occupation by Axis Powers
 - 5 Neutrals 8 " " United Nations
- 534- 539 Individual countries
- Divided like 940-999
 - Under each country further subdivision may be made with the following numbers, if its part in this war is class here insted of with the rest of its history
 - 01 Political history Causes
 - 02 Diplomatic history
 - 03 Local (states, countries provinces, cities)
 - 04 Military organization
 - Class operations in 940 54
 - 05 Aspects economic and other
 - 06 Celebrations
 - 07 Prisons etc.
 - 08 Personal narrativs secret service propaganda
 - 09 Illustrativ
- 54 Military history
- 5401 Strategy
- 12 United Nations
 - Divided like 940-999
 - 13 Axis Powers
 - Divided like 940-999
 - 2 Recruitment Drafts Volunteers
 - Class here general discussions only When relating to special country class under 940 534- 539
 - 3 American Negroes American Indians
 - Class here general discussion of use of such troupes. For their history as military units see 940 541273
 - 4 Other racial and national groups
 - For general discussions only See note under 940 5403

- 940 5405 Penal and malign measures
 Deportation segregation of dangerous or undesirable groups and
 individuals confiscation censorship For conscientious objectors see
 940 53162 for concentration camps etc see 940 5472
- 56 Frightfulness Cruelty
 As military expedient For other aspects see Cruelty in Relative Index
- 541 Land operations
 For general works on land operations by countries involved Clas here also
 concerted operations of land forces with other services e.g land and naval
 forces land and air forces land air and naval forces
- 1 Special branches of service
 Clas here material on various land services not limited to special countries
 or belligerent groups e.g organisation (armies corps divisions etc)
 training camps specific services (infantry paratroops guerillas cavalry
 tank corps artillery etc) supply services (quartermasters and ordnance
 departments) etc If material is broad it may be clas in 355 358 For
 medical sanitary and ambulance services see 940 5473
- 2 Military organizations of United Nations
 Divided like 940-990
- 3 Military organizations of Axis Powers
 Divided like 940-999
- 4 Battle fronts
 Proper subdivisions to be provided after the war is over
- 542 Special campaigns and battles
 Including separate armistices such as Franco-German and Franco-Italian
 Proper arrangement of material which belongs here can be provided only after
 the war is over
- 544 Air operations
 Material on events of air warfare to be clas here until proper subdivisions
 (similar to those in 940 444) can be provided after the war is over
- 1 Air service
 Observation and scouting artillery detecting range finding signaling
 bombing land air or naval fighting antisubmarine operations coast
 patrol with airplanes airships blimps etc balloon barrage
- 2 Organized raids
- 3 Air bases
- 545 Naval operations
 Material on events of naval warfare to be clas here until proper subdivision
 (similar to those in 940 454) can be provided after the war is over
- 1 Submarine warfare
- 12 Use of submarines by Axis Powers
- 13 Use of submarines by United Nations
- 16 Antisubmarine operations
 Aircraft camouflage, chasers mine fields nets, etc.
- 2 Blockades and blockade running
 Submarine blockade, war zones, embargo contraband
- 3 Naval bases
- 546 Celebrations Commemorations
 Divided like 940-46

DECIMAL CLASIFICATION

940 547	Prisons	Hospitals	Charities
2	Prisons		
	Including internment and concentration camps and areas Divided like 940-999		
3	Exchange of prisoners		
5	Medical departments	surgeons	nurses
	See also 616 and 617		
52	Sanitary affairs		
53	Ambulance units		
54-59	By country maintaining		
	Divided like 940-999		
6	Hospitals	hospital sketches	
634-639	By country in which located		Divided like 940-999
64-69	By country maintaining		" " "
7	Welfare work		
	Class here material related to welfare work in general and work by particular organizations except the work of the Red Cross for which special subdivisions is provided below		
71	Red Cross		
78	By country conducting		Divided like 940-999
79	By country in which conducted		" " "
8	Religious life, chaplains etc		
548	Personal narratives, secret service, propaganda		
1	Personal narratives	United Nations	Divided like 940-999
2	" "	Axis Powers	" " "
3	Army life	United Nations	" " "
4	" "	Axis Powers	" " "
5	Secret service	Spies	Saboteurs "Fifth column"
6	United Nations		Divided like 940-999
7	Axis Powers		" " "
8	Propaganda	War of nerves	Psychologic war
86	United Nations		Divided like 940-999
87	Axis Powers		" " "
89	In special countries		
	Divided like 940-999 class here propaganda of both sides in a special country		
549	Illustrative material		
	Divided like 973.79		
	For special collections most material is better class with its subject poetry drama etc with literature to which they belong		

940	477	Welfare work	Charities	
	1	Red Cross		
	2	Salvation Army		
	3	Y M C A		
	4	Y W C A		
	5	Knights of Columbus		
	6	Young Men's Hebrew ass'n		
	7	Other. college units, etc		
	8	By country conducting	Divided like 940-999	
	9	By country in which conducted	Divided like 940-999	
478		Religious life, chaplains etc		
48		Personal narratives, secret servs, propaganda		
		When relating to some special battle or other event clas with subject		
481		Personal narratives	Entente	Divided like 940-999
482		"	Central powers	" " "
483		Army life	Entente	" " "
484		"	Central powers	" " "
485		Secret servs	Spies	" " "
		Clas here works including activties of both s des, but for secret servs or spy activties of one of the belligerents or groups of belligerents in a special country prefer 940 486-487		
486		Entente		Divided like 940-999
487		Central powers		" " "
488		Propaganda		
	6	Entente		" " "
	7	Central powers		" " "
	9	In special countries		" " "
		Clas here works including propaganda of both s des but for propaganda in a special country by one of the belligerents or groups of belligerents prefer 940.4886-7		
49		Illustrativ material		Divided like 973 79
		For special collections but most material should be clasd with its subject poetry drama etc with the literatures to wh ch they belong		
5		Later 20th century	Including works on 20th century as a whole	
51		1919-29	52 1930-	53-54 European war 1939-
		940 3-4 e g Causes 940 5311		Divided like

941 Scotland

Period divisions

01	Gaelic period	-1097
02	English period	1097-1314
	Struggle for national freedom	
03	Independent kingdom	1314-1424
04	The Jameses	1424-1557
05	Reformation	1557-1603
06	Union of crowns and parliaments	1603-1707
07	Hanover	1707-1837
08	Later Hanoverian Windsor	1837-

Geografic divisions

1 Northern Scotland

11 Shetland	12 Orkney	13 Caithness	14 Sutherland
15 Cromarty	16 Ross	17 Hebrides	

2 North central Scotland

21 Inverness	22 Nairn	23 Elgin	24 Banff	25 Aber-
deen	26 Kincardine			

- 941 3 South central Scotland
 31 Forfar 32 Perth 33 Fife 34 Kinross 35 Clack
 mannan 36 Stirling 37 Dumbarton 38 Argyll 39 Bute
- 4 Southern Scotland
 41 Renfrew 42 Ayr 43 Lanark 44 Linlithgow 45 Edin
 burgh 46 Haddington 47 Berwick 48 Peebles 49 Selkirk
 50 Roxburgh 51 Dumfries 52 Kirkcudbright 53 Wigton

941 5 Eire (Ireland)

Period divisions

- 51 Early history -1086
 52 Separate kingdoms 1086-1172
 Conquest by Henry 2
 53 Plantagenet 1172-1399
 54 Lancaster and York 1399-1485
 55 Tudors 1485-1603
 56 Stuarts 1603-01
 Closing with treaty of Limerick
 57 Hanover 1691-1801
 Closing with the union
 58 19th century 1801-1900
 59 Early 20th century
 Government of Ireland act 1920
 Northern Ireland 1920-
 Southern Ireland 1920-22
 Irish Free State act 1922
 Irish Free State 1922-37
 Eire 1937-

Geographic divisions of Ireland

- 941 6 Ulster
 61 Antrim 62 Londonderry 63 Donegal 64 Tyrone
 65 Down 66 Armagh 67 Monaghan 68 Fermanagh
 69 Cavan
- 7 Connaught
 71 Leitrim 72 Sligo 73 Mayo 74 Galway 75 Ros
 common
- 8 Leinster
 81 Longford 82 West Meath 83 Meath 84 Louth
 85 Dublin 86 Wicklow 87 Kildare 88 King's co.
 89 Queen's co. 90 Carlow 91 Wexford 92 Kilkenny
- 9 Munster
 93 Waterford 94 Tipperary 95 Clare 96 Limerick
 97 Cork 98 Kerry

942 England

Including works on Great Britain

Period divisions

For specially minute work the 6th figure printed for each sovereign may be used as a
 Henry 7 is 942 051

- 01 Anglo-Saxon 1066
 Prehistoric, Roman British Danish
- 02 Norman 1066-1154
 1 William 1 1066-87 2 William 2 1087-1100 3 Henry 1
 1100-35 4 Stephen 1135-54
- 03 Plantagenet 1154-1399
 1 Henry 2 1154-89 2 Richard 1 1189-99 3 John 1199-1216
 4 Henry 3 1216-72 5 Edward 1 1272-1307 6 Edward 1
 1307-27 7 Edward 3 1327-77 8 Richard 2 1377-99

- 942 04 **Lancaster and York** 1400-85
 Wars of the roses 1455-85 (Lancaster red York white)
 1 Henry 4 1399-1413 2 Henry 5 1413-22 3 Henry 6
 1422-61 4 Edward 4 1461-83 5 Edward 5 1483 6 Rich-
 ard 3 1483-85
- .05 **Tudor** 1485-1603
 1 Henry 7 1485-1509 2 Henry 8 1509-47 3 Edward 6
 1547-53 4 Mary 1553-58 See also 272 6 5 Elizabeth 1558 1603
 See also 272 7
- .06 **Stuart** 1603-1714
 1 James 1 1603-25 2 Charles 1 1625-49 3 Commonwealth
 1649-53 4 Oliver Cromwell 1653-58 5 Richard Cromwell
 1658-59 6 Charles 2 1660-85 7 James 2 1685-88 8 Wil-
 ham 3 1689-1702 9 Anne 1702-14 War of Spanish succession
- .07 **Hanover** 1714-1837
 1 George 1 1714-27 2 George 2 1727-60 3 George 3 1760-
 1820 4 George 4 1820-30 5 William 4 1830-37
- .08 **Later Hanoverian** Windsor 1837-
 1 Victoria 1837 1901 2 Edward 7 1901-10 3 George 5 1910-
 36 4 Edward 8 1936 George 6 1936-

Geographic divisions

- 942 1 **London county** **Middlesex**
 11 London north of Thames 12 Central London London city Fins-
 bury Holborn 13 West London Westminster Chelsea Fulham Hammer-
 smith Kensington Paddington 14 North London St Marylebone Hamp-
 stead St Pancras Ilington Stoke Newington Hackney 15 East London
 Shoreditch Bethnal Green, Poplar Stepney 16 London south of Thames
 Southwark Bermondsey Deptford, Greenwich Woolwich Lewisham Camberwell
 Lambeth Battersea Wandsworth 17 Environs of London 19 Middlesex
- .2 **Southeastern** **Thames river**
 21 Surrey 23 Kent 25 Sussex 27 Hants 28 Isle of
 Wight 29 Berks
- .3 **Southwestern**
 31 Wilts 33 Dorset 34 Channel islands 35 Devon 37 Corn-
 wall 38 Somerset
- .4 **West Midland**
 41 Gloucester 43 Monmouth 44 Hereford 45 Salop
 46 Stafford 47 Worcester 48 Warwick
- .5 **North and South Midland**
 51 Derby 52 Notts 53 Lincoln 54 Leicester 545 Rutland
 55 Northampton 56 Huntingdon 565 Bedford 57 Oxford
 575 Buckingham 58 Hertford 59 Cambridge
- .6 **Eastern**
 61 Norfolk 64 Suffolk 67 Essex
- .7 **Northwestern and Yorkshire**
 71 Cheshire 72 Lancashire 74 Yorkshire
- .8 **Northern**
 81 Durham 82 Northumberland 85 Cumberland 88 West
 moreland 89 Isle of Man
- .9 **Wales**
 91 Anglesey 92 Carnarvon 925 Merioneth 93 Denbigh
 935 Flint 94 Montgomery 95 Cardigan 96 Radnor
 965 Brecknock 97 Glamorgan 98 Carmarthen 99 Pembroke

944 France

Period divisions

- .01 Early history -987
Ancient Kelts -59 B C Roman dominion 59 B C -418 A. D
Merovingian dynasty 428-752 Carolingian 752-987
- .02 Capet and Valois 987-1589
House of Capet
1 Hugh Capet 987-996 Robert 2 996-1031 Henry 1 1031-60
2 Philip 1 1060-1108 Louis 6 1108-37 Louis 7 1137-80
3 Philip 2 1180-1223 Louis 8 1223-26 Louis 9 1226-70
4 Philip 3 1270-85 Philip 4 1285-1314 Louis 10 1314-16
John 1 1316 Philip 5 1316-22 Charles 4 1322-28
House of Valois
5 Philip 6 1328-50 John 2 1350-64 Charles 5 1364-80
6 Charles 6 1380-1422 Charles 7 1422-61
7 Louis 11 1461-83 Charles 8 1483-98 Louis 12 1498-1515
House of Angoulême
8 Francis 1 1515-47 Henry 2 1547-59
9 Francis 2 1559-60 Charles 9 1560-74 Henry 3 1574-89
- .03 Bourbon 1589-1789
1 Henry 4 1589-1610 2 Louis 13 1610-43 3 Louis 14 1643-1715, War of Spanish succession 4 Louis 15 1715-74
5 Louis 16 1774-92
- .04 Revolution 1789-1804
1 National assembly 1789-92 2 First republic 1792-99 3 Convention 1792-95 4 Reign of terror May 1793-July 1794
5 Directory 1795-99 6 First consulate, Napoleon 1799-1804
- .05 First empire 1804-1815
Napoleon 1 1804-14 Louis 18 1814-15 The hundred days
March 20-June 29 1815
- .06 Restoration 1815-1848
1 Louis 18 1815-24 2 Charles 10 1824-30 3 Louis Philippe 1830-48
- .07 Second republic and second empire 1848-1870
Revolution of 1848 Second republic, Louis Napoleon, pres 1848-52 Napoleon 3 1852-70
- .08 Third republic 1870-
Franco-German war, Government of national defense 1870-71
National assembly 1871 Presidency of Thiers 1871-73
McMahon 1873-79 Grévy 1879-87 Sadi Carnot 1887-94
Casimir Périer 1894-95 Faure 1895-99 Loubet 1899-1906
Fallières 1906-13 Poincaré 1913-20. World war 1914-19
Deschanel 1920 Millerand 1920-24 Doumergue 1924-31
Doumer 1931-32 Lebrun 1932-

Geographic divisions of France

- .1 Brittany Maine Anjou
.11 Finistère .12 Côtes du Nord .13 Morbihan .14 Loire
Inférieure .15 Ille et Vilaine .16 Maine Mayenne
17 Sarthe .18 Anjou: Maine et Loire
- .2 Normandy Picardy
.21 Manche .22 Calvados .23 Orne .24 Eure .25 Seine
Inférieure .26 Picardy. Somme .27 Artois Pas de Calais
.28 French Flanders: Nord

- 944.3 **Champagne Ile de France Lorraine**
 .31 Ardennes .32 Marne .331 Aube .332 Haute Marne
 .34 Ile de France: Aisne .35 Oise .36 Seine et Oise, Paris
 .37 Seine et Marne .38 Lorraine (Alsace-Lorraine):
 .381 Meuse .382 Meurthe et Moselle .383 Alsace (But
 use 38 for Alsace and Lorraine together) See also 943 44-45
 .39 Vosges
- .4 **Burgundy Franche Comté Savoy**
 .41 Yonne .42 Côte d'Or .43 Saône et Loire .44 Ain
 .45 Franche Comté Haute Saône, Belfort .46 Doubs .47 Jura
 .48 Savoy: Savoie .49 Haute Savoie
- .5 **Orléans, etc. Auvergne**
 .51 Eure et Loir .52 Loiret .53 Loir et Cher .54 Touraine:
 Indre et Lour .55 Berry .551 Indre .552 Cher .56 Ni-
 vernais: Nièvre .57 Bourbonnais: Allier .58 Lyonnais
 .581 Loire .582 Rhône .59 Auvergne .591 Puy de Dôme
 .592 Cantal
- .6 **Poitou Limousin**
 .61 Vendée .62 Deux Sèvres .63 Vienne .64 Charente
 Inférieure .65 Charente .66 Limousin: Haute Vienne
 .67 Corrèze .68 Marche: Creuse
- .7 **Guienne Gascony**
 .71 Gironde .72 Dordogne .73 Lot .74 Aveyron .75 Tarn
 et Garonne .76 Lot et Garonne .77 Gascony .771 Gers
 .772 Landes .78 Hautes Pyrénées .79 Béarn: Basses
 Pyrénées
- .8 **Languedoc**
 .81 Haute Loire, Lozère .82 Ardèche .83 Gard .84 Hérault
 .85 Tarn .86 Haute Garonne .87 Aude .88 Foix: Ariège
 .89 Pyrénées Orientales
- .9 **Provence Dauphiny**
 .91 Bouches du Rhône .92 Vaucluse .93 Var .94 Alpes
 Maritimes .949 Monaco, Monte Carlo .95 Basses Alpes
 .96 Dauphiny .97 Hautes Alpes .98 Drôme .99 Isère

945 Italy

Period divisions

- | | | |
|-----|--|-----------|
| .01 | Gothic and Lombard kingdoms | 476-774 |
| .02 | Frankish emperors | 774-961 |
| .03 | German emperors | 962-1122 |
| | Hildebrand and papal supremacy | |
| .04 | Age of the communes | 1100-1300 |
| | Free cities Strifes of Guelphs and Ghibelines | |
| .05 | Age of the despots | 1300-1492 |
| .06 | Age of invasions | 1492-1527 |
| .07 | Spanish Austrian ascendancy | 1527-1796 |
| .08 | Struggle for independence | 1796-1870 |
| | Victor Emmanuel 2, Cavour, Garibaldi | |
| .09 | United Italy | 1870- |
| | Victor Emmanuel 2 -1878, Humbert 1878-1900, Victor Emmanuel 3
1900- Mussolini | |

Geografic divisions of Italy

- 945.1 Piedmont and Liguria
 .2 Lombardy
 .3 Venetia
 .4 Emilia
 .5 Tuscany
 .6 Marches, Umbria and Latium
 .7 Naples
 .71 Abruzzo and Molise .72 Campania .73 Napoli
 .74 Salerno .75 Apulia .753 Lecce, Terra di Otranto
 .77 Basilicata, Potenza .78 Calabria .783 Reggio di Calabria
 .8 Sicily Malta
 .9 Sardinia and Corsica
 946 Spain

Period divisions

- .01 Early history Roman dominion Gothic kingdom — 711
 .02 Moorish kingdom 711-1479
 .03 Ferdinand 5 and Isabella 1479-1516
 Discovery
 Expulsion of the Moors
 .04 Charles 1 and Philip 2 1516-98
 Inquisition War with the Netherlands Armada Charles 1
 (5th of Germany) 1516-56 Philip 2 1556-98
 .05 Philip 3—Charles 4 1598-1808
 Degeneration 1 Philip 3 1598-1621 2 Philip 4 1621-65
 3 Charles 2 1665-1700 4 House of Bourbon: 5 Philip 5
 1700-46 6 Ferdinand 6 1746-59 7 Charles 3 1759-88
 8 Charles 4 1788-1808
 .06 Peninsular war 1808-14
 Joseph Bonaparte
 .07 Bourbon restoration 1814-68
 Attempts at reform
 Ferdinand 7 1814-33 Isabella 2 1833-68
 .08 Revolution and 2d restoration 1868—
 Revolution of 1868-70 Amadeus 1870-73 Republic 1873-75
 Alfonso 12 1875-85 Alfonso 13 1886-1931 2d republic 1931—

Geografic divisions of Spain

- .1 Galicia Asturias
 .2 Leon Extremadura
 .3 Old Castile
 .4 New Castile
 .5 Navarre Aragon
 .6 Basque provinces
 .7 Catalonia Balearic iles Valencia Murcia
 .8 Andalusia Canary iles Geografically better in 964 9
 .9 Portugal

- .91 Entre Minho-e-Douro .92 Tras-os-Montes .93 Beira
 .94 Estremadura .95 Alentejo .96 Algarve .98 Madeira
 .99 Azores

947 Union of Soviet Socialist Republics (Russia)

Period divisions

.01	Primitive Russia	—862
.02	Varangian kingdom	862-1237
	Conversion to Christianity	
.03	Mongolian invasion	1237-1462
	Civil wars	
.04	Ivan 3-Ivan 5	1462-1689
	Origin of serfdom	
.05	Peter the Great	1689-1725
	Wars with Sweden and Turkey	
.06	Catharine 1-Catharine 2	1725-96
	Partition of Poland	
.07	Paul 1-Nicholas 1	1796-1855
	War with Napoleon	
	Insurrection of Poland	
	Crimean war	See also 942 08, 944 07, 945 08 949 6
.08	Alexander 2	1855-81
	Emancipation of the serfs	
	Turko Russian war	
	Alexander 3	1881-94
	Nicholas 2	1894-1917
	Revolution 1917	
.084	Republic	1917-

Geographic divisions of Russia

.1	Finland	Lapland
.2	Northern Great Russia	
	Archangel, Vologda, Olonietz	Novgorod
.3	Southern Great Russia	
.4	Baltic provinces	Ingria (Ingermanland)
	Courland, Livonia, Esthonia,	Leningrad (Petrograd, St Petersburg)
.5	Russian Poland	
	Partly restored to Poland by peace of Versailles 1919	Lithuania
.6	West Russia	
.7	Little Russia	South Russia Ukraine
.8	East Russia	
.9	Caucasia	

948 Norway Sweden Denmark

Period divisions

.01	Legendary period	-800
.02	Consolidation Migration	801-1397
	Introduction of Christianity	
	Discovery of Iceland Greenland, and America	
	Conquest of Britain and Normandy	
.03	Union of the 3 kingdoms	1397-1523
	Civilization Foreign relations	
.04	The reformation	1523-1648
	Edict of toleration 1527	
	30 years war Gustavus Adolphus	
.05	Decline	1648-1792
	Wars vs Denmark, Poland, Russia	
	Political changes	
.06	Napoleonic wars	1792-1814
	Union of Norway and Sweden	1814
.07	19th century	1814-1905
	Charles 14 (Bernadotte)	
	Peace internal reform Separation of Norway from Sweden, 1905	
.08	20th century-	1905-

Geographic divisions

.1	Norway	
.2	Oslo (Christiania)	Christiansand
.3	Bergen	Hamar
.4	Thronhjelm	Tromsø
.5	Sweden	
.6	Gothland	
.7	Svealand	
.8	Norrland	
.9	Denmark	

949 Other countries of Europe

- .1 **Iceland** **Faroe islands**
 01 Commonwealth -1264 02 Medievalism 1264-1551 03 Absolute rule, Decay 1551-1848 04 Modern Iceland 1848-
- .2 **Netherlands**
 01 Early history -1477 02 Austrian dominion 1477-1566
 03 Wars for independence 1566-1648. 04 Age of prosperity 1648-1795 05 Revolutionary 1795-1830 06 19th century 1830-1900 07 20th century 1901-
- .3 **Belgium** **Luxemburg**
- .4 **Switzerland**
 01 Early history -1300 02 Struggle for independence 1300-1499 03 Reformation 1499-1648 04 Period of tranquillity 1648-1789 05 Period of revolution 1789-1815 06 19th century 1815-1900 07 20th century 1901-
- .5 **Byzantine empire and modern Greece**
 01 Greek revival 323-716
 Constantine the great-Theodosius 3
 02 Byzantine prosperity 716-1057
 Leo 3-Michael 6
 03 Byzantine decline 1057-1204
 Isaac 1-Latin conquest of Constantinople
 04 Greek survival 1204-1453
 Constantinople taken by the Turks, 1453
 05 Turkish power 1453-1821
 06 Greek independence 1821-
 07 Hellenic republic 1924-35 Restoration 1935-
- .6 **Turkey in Europe** **Balkan states** 61 Constantinople
 Also works including Turkey in Asia to 1920 For Turkey in Asia and general works on Turkey since 1920 see 956 If preferred all items on Turkey may be collected on either number
- .7 **Jugoslavia: Serbia, Montenegro** **Bulgaria**
 In addition to Serbia and Montenegro Jugoslavia (Kingdom of the Serbs Croats and Slovenes, established in 1918) includes Dalmatia (943 69), Slavonia (943 93), Croatia (943 94) Bosnia (943 953) Herzegovina (943 96) and Slovenia (943 67)
- .8 **Rumania: Wallachia, Moldavia, Dobruja**
 Includes also Bessarabia (947 7) added in Mar 1918, Bukovina (943 75) Nov 1918, and Transylvania (943 92) Dec. 1918
- .9 **Islands of Greek archipelago**
 Divided like 939 1

- 351 19 Central China
 2 Southeast China, South China Yangtze River valley
 21 Hukoang Lianghu 212 Hupei (Cities Ichang Shasi etc) 213 Wuhan or Han cities (Hankow Wuchang Han yang) 215 Hunan (Cities Yochow Hengyang etc Tung tinghu lake Hengshan mt) 2152 Changsha
 22 Kiangnan Nanchuhli (Includes Kiangsu 951 13) 222 Kiangsi (Cities Kiukiang Kuling etc Poyanghu lake Lushan mt) 2225 Nanchang 225 Anhwei, Nganhwei (Wuhu city Hungtseh lake Hwangshan mt) 2252 Anking (Nganking Huaining)
 23 China Sea or southeast coast provinces
 24 Minche, East China Sea provinces 242 Chekiang (Cities Huchow Kiahsing Shaohsing Ningpo etc mts Mokanshan and Tienmoshan) 2425 Hangchow city and bay (Sihu or West Lake) 245 Fukien (Cities Chuanchow Amoy Kulangsu etc) 2452 Foochow (Minhow) 2455 Changchowfu 249 Formosa Taiwan May be divided like 952 9 which see for works on Taiwan 1895- If preferd all material on Taiwan may be kept together under either number
 25 Hongkong, Kowloon 26 Macao
 27 Kwangtung, South China Sea region (Cities Swallow Chungshan Kwangchowwan etc Chukiang Canton or Pearl River) 275 Canton (Kwangchowfu) 278 Hainan (island) Kuangchow
 28 Kwangsi Si Kiang or West River valley, Cities Wuchow Kueilin Nanning (Yungning) etc
 3 Western China
 32 Southwest China
 33 Yunkwei 34 Kweichow 345 Kweichow 35 Yunnan (Cities Mengtsz Tali etc) 355 Kunming (Yunnanfu)
 3, Sikang (Cities Kangting (Tachienlu Tatsienlu) Paan (Palang) etc Minya Konka or Bokonka mt) 38 Szechwan (Wankhsien city Omeishan mt) 382 Chungking 385 Chengtu

- 951 4 Northwest China
 41 Great wall 43 Shensi (Cities Nancheng (Hanchung), Tungkuang etc Hwasshan mt) 435 Sian (Singan Siking) 45 Kansu (Tunwhang etc.) 455 Lanchow 47 Chinghai (Tsinghai), Kokonor (Use as general number for Near Tibet which includes also Sikang 951 37) 472 Sining
- 5 Tibet (Thibet), Sitsang 52 Lhasa (Lassa)
- 6 East or Chinese Turkestan Sinkiang
 Chinese Central Asia (for Central Asia in general see 958)
 Cities Hoten (Khotan) Yarkand Kashgar (Shufu) Hami, Tihwa (Urumchi Urumisi) etc. Mts Tienshan (Tianshan Thianshan) Kunlun (Kuenlun) etc. Deserts Dzun gara (Zungaria) Takla Makan
- 7 Mongolia
 71 Tannu Tuva Kizilkhoto (Krasny)
- 73 Outer Mongolia (Republic of Mongolia) 735 Urga (Kulun Ulan Bator Khoto) 739 Gobi or Shamo desert
- 74 Inner or Chinese Mongolia 75 Ningsia (Ningsia) 76 Suiyuan (Cities Kweisui (Aweishwa-Suiyuan) Paotow etc.) 77 Chahar (Cities Changbeh Kalgan Wanchuan etc.) 78 Jehol (Chengteh city)
- 8 Manchuria (Manchow) Manchukuo
 Three Eastern (or northeastern) provinces Manchukuo includes Jehol 951 78
- 82 Liaoning Fengtien Shengking 822 Liaotung peninsula, Kwantung (Kwang tung, Kwanto) (Cities Dairen (Dalny Tilienwan) Port Arthur (Lushunkow Ryojunko) etc. 824 Shenyang (Mukden) 84 Heilungkiang, Amur Khingan (Cities Manchouli (Lüpin) Lungkiang (Tsitsihar) etc. Amur or Heilungkiang River valley) 88 Kirin (Cities Habrin (Pinking) Changchun (Hsinking) Yungki (Kirin) etc)
- 9 Chosen, Korea (Corea) 95 Seoul (Keijo)

952 Japan Nippon

For Chosen see 951.9

Period divisions

Dates given by different authors vary greatly but generally dates found in the history published by order of Japanese Department of Education have been used as being those officially fixed. In some cases these dates have obviously been extended to make the series continuous, e.g. an emperor's rule is given as extending beyond date of his death.

- 01 Early period -1186 A D
 .011 Mythologic period -660 B C
 .012 Prehistoric (or legendary) period 660 B C-400 A D
 1 Jimmu 660-585 B C 2 Suizei 581-549 21 Annei
 548-510 22 Itoku 510-475 23 Koshō 475-392
 24 Koan 392-290 25 Kōrei 290-214 26 Kōgen 214-
 157 27 Kaikwa 157-97 3 Sujin 97-29 4 Sumin
 29 B C-71 A D 5 Keiko 71-131 6 Seimu 131-192
 7 Chuai 192-200, Jingu, Empress, 200-270 (died 269)
 8 Ōjin 270-313 (died 310) 9 Nintoku 313-400
 .013 Early historic period 400-645
 1 Richū 400-405 15 Hanshō 405-11 2 Inkyō 411-53
 25 Anko 453-56 3 Yuryaku 456-80 35 Seimei 480-85
 4 Kenso 485-88 45 Ninken 488-99 5 Buretsu
 499-507 53 Keitai 507-34 (died 531) 55 Ankan
 534-36 57 Senkwa 536-40 6 Kimmie 540-72 63
 Būdatsu 572-86 65 Yomei 586-88 67 Sushun 588-91
 7 Suiko, Empress, 591-629 8 Jomei 629-42 9
 Kōkyoku, Empress, 642-45 See also 952.0142
 .014 Taikwa reform 645-708
 1 Kotoku 645-55 2 Saimei, Empress (Kōkyoku restored)
 655-61 See also 952.0132 3 Interregnum 661-68 4
 Tenji 668-72 5 Kōbun 672-73 6 Temmu 673-86
 7 Interregnum 686-90 8 Jito, Empress, 690-97 9
 Mōmu 697-708
 .015 Nara period 708-94
 1 Gemmyō, Empress, 708-15 2 Genshō, Empress, 715-24
 3 Shōmu 724-49 4 Kōken, Empress, 749-59 See also
 952.0156 5 Junnin 759-65 6 Shōtoku, Empress
 (Kōken restored) 765-70 See also 952.0154 7 Konin
 770-82

951 016

Heian period

794-1186

- 1 Early Heian 794-856 11 Kwammu 782-806 12
 Heizei 806-10 13 Saga 810-24 14 Junna 824-34
 15 Nimmyo 834-51 16 Montoku 851-56
 2 Fujiwara period 856-1069 21 Seiwa 856-77 215
 Yozei 877-85 217 Koko 885-93 22 Uda 893-98
 23 Daigo 898-931 235 Shujaku 931-47 24 Murakamu
 947-68 245 Reizei 968-70 25 Enyu 970-85 255
 Kwazan 985-87 26 Ichijo 987-1012 265 Sanjo 1012-
 17 27 Go-Ichijo 1017-37 28 Go-Shujaku 1037-46
 29 Go Reizei 1046-69
 3 Taira period 1069-1186 31 Go Sanjo 1069-73 32
 Shirakawa 1073-87 33 Honkawa 1087-1109 34
 Toba 1109-24 35 Sutoku 1124-42 36 Konoe 1142-
 56 37 Go-Shirakawa 1156-59 38 Gempei wars
 1159-86 382 Nijo 1159-66 384 Rokujo 1166-60
 386 Takakura 1169-80 388 Antoku 1180-86 (died 1185)

02

Feudal ages Shoguns

1186-1868

Class special topics according to dates given for emperors. Names and dates of shoguns and regents are given merely to guide in classing material relating to these individuals.

.021

Kamakura period

1186-1333

- 1 Minamoto shoguns 1192-1219 11 Go Toba 1186-99,
 shogun Yoritomo 1192-99 12 Tsuchumikado 1199-1211,
 shoguns Yorie 1199-1203 Sanetomo 1203-19
 2 Hojo regents 1205-1333 21 Juntoku 1211-22, regents
 Tokunasa 1199-1205 Yoshitoki 1205-24 215 Chukyo
 1222 22 Go-Horikawa 1222-33, shogun, Fujiwara
 Yoritune 1219-44 regent Yasutoki 1225-42 225
 Shijo 1233-43 23 Go-Saga 1243-47, regent Tsunetoki
 1243-46 24 Go-Fukakusa 1247-66 shoguns Fujiwara
 Yorisugu 1244-52, Prince Munetaka 1252-66, regent,
 Tokiyori 1246-56 25 Kameyama 1266-76, shogun,
 Prince Koreyasu 1266-89, regent, Tokimune 1256-84
 255 Go-Uda 1276-88 26 Fushimi 1288-99 shogun,
 Prince Hisaakura 1289-1308, regent, Sadatoki 1284-1300
 265 Go-Fushimi 1299-1301 27 Go-Nijo 1301-08,
 regent, Morotoki 1300-11 28 Hanazono 1308-19
 shogun Prince Morikuni 1308-33 29 Go-Daigo 1319-39,
 shoguns Prince Moriyoshi 1333-34, Prince Nariyoshi
 1334-38 regent Takatoki 1312-33

.022

Imperial restoration period

1333-93

See also 952 02129

- 1 Southern dynasty (Yoshino): 2 Go-Murakami 1339-68
 3 Go-Toba 1369-93
 7 Komyo
 8 75 Suko
 in, Ashikaga
 Yoshiakura 1358-67 9 Go-Enyu 1372-83, shogun,
 Ashikaga Yoshimitsu 1367-94 95 Go-Komatsu 1383-93

See also 952 0231

952 Japan Nippon

For Chosen see 951.9

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 shogun Prince Morikuni 1308-33 29 Go-Daigo 1319-39
 shoguns Prince Moriyoshi 1333-34, Prince Naryochi
 1334-38 regent Takatoki 1312-33

.022

Imperial restoration period

1333-93

See also 952 02129

- 1 Southern dynasty (Yoshino) 2 Go-Murakami 1339-68
 3 Chokei 1368-70 4 Go-Kameyama 1370-93
 7 Komyo
 75 Suko
 Ashikaga
 Yoshiakira 1358-67 9 Go-Enyu 1372-83 shogun,
 Ashikaga Yoshumtzu 1367-94 95 Go-Komatsu 1383-93
 See also 952 0231

952 023

Muromachi period

1393-1573

Ashikaga shoguns. See also 952 0227-95

- 1 Go Komatsu 1393-1413 2 Shoko 1413-29, shoguns
Yoshimochi 1394-1423, 1425-28, Yoshikazu 1423-25 3
Go Hanazono 1429-65, shoguns Yoshinori 1428-41,
Yoshikatsu 1441-49 Yoshimasa 1449-73 4 Go-
Tsuchimikado 1465-1501, shoguns Yoshihisa 1473-89
Yoshimura 1489-93, 1508-21, Yoshizumi 1493-1508 5
Go-Kashiwabara 1501-27 6 Go Nara 1527-58 shoguns
Yoshiharu 1521-45 Yoshiteru 1545-65 7 Ogimachi
1558-87, shoguns Yoshinaga 1565-68, Yoshiaki 1568-73

.024

Interregnum of shoguns Military dictatorship Emperor Go-

Yozei 1587-1612

1573-1603

- Military dictators 1 Oda Nobunaga 1573-82 2
Toyotomi Hideyoshi 1583-98 (Momoyama period) 3
Hideyori 1598-1600

.025

Edo period Tokugawa shoguns

1603-1868

- 1 Foundation 1603-51 For reign of Emperor Go-Yozei, 1587-1612
see 952 024 11 Go-Minoo 1612-30, shoguns Ieyasu 1603 5,
Hidetada 1605-24 12 Myosho Empress, 1630-44,
shogun Iemitsu 1624-51 13 Go-Komyo 1644-55
2 Decline 1651-1837 21 Go-Saun 1655-63 22 Reigen
1663-87, shogun Ietsuna 1651-80 23 Higashiyama
1687-1710, shogun Tsunayoshi 1680-1709 24 Naka
mikado 1710-36, shoguns Ienobu 1709-13, Ietsugu 1713-
16 Yoshimune 1716-45 25 Sakuramachi 1736-47 26
Momozono 1747-63, shogun, Ieshige 1745-61 27 Go-
Sakuramachi 1763-71, shogun, Ieharu 1761-87 28 Go-
Momozono 1771-80 29 Kokaku 1780-1817, shogun,
Ienari 1787-1837
3 Fall 1837-68 31 Ninko 1817-47, shogun, Ieyoshi 1837-54
32 Komei 1847-67, shoguns Iesada 1854-57, Iemochi
1857-66, Yoshinobu 1866-68 Visits of Commodore M C
Perry 1853-54 Treaty with United States of America
1854

HISTORY

952 03	Imperial power reestablished	1868-
031	Meiji period Emperor Mutsuhito (1867-1912)	1868-1912
3	Satsuma revolt 1877	
5	Sino-Japanese war 1894-95	
51	Political history causes results	
511	Causes	
514	Results terms of peace	
515	Relations of special classes to the war	
52	Diplomatic history	
53	Special campaigns and battles	
54	General military history	
55	Naval history	
56	Celebrations Anniversaries Commemorations	
565	Monuments memorials etc	
567	Rolls of honor Lists of dead	
57	Prisons Hospitals Charities	
	May if needed be further subdivided like 940 47	
58	Personal narratives Secret servis Spies	
	When relating to some special battle or other event class according to subject	
585	Secret servis Spies	
59	Illustrative material	
	Subdivided like 973.39 For special collections but most material should be class with the literature to which it belongs with the form divisions, poetry drama etc or with pictures or music	
8	Russo-Japanese war 1904-5	
	Subdivided like 952 0315	
032	Taisho period Emperor Yoshihito	1912-26
3-4	World war 1914-19	
	Better class in 940 3-4 but if kept here may be subdivided so far as needed like 940 3-4	
033	Showa period Emperor Hirohito	1926-

- 953 Arabia
 1 Sinai 2 Hejaz Mecca 3 Yemen 4 Hadramaut Mah
 rah 5 Oman 6 Hasa 7 Dahna 8 Nejd 9 Syrian
 desert
- 954 India
 1 Bengal Or ssa Assam Bhotan 2 Northwest provinces Oudh
 Nepal 3 Central provinces 4 Rajputana 5 Punjab
 Delhi Lahore 6 Kashmir 7 Bombay Sind Baroda
 8 Madras Mysore Travancore Ceylon 9 Hyderabad
- 955 Iran (Persia)
- 956 Turkey in Asia
 Use as general number for Turkey 1920- For Turkey in Europe and
 general works on Turkey before 1920 see 949.6
 1 Khodavendigar 2 Aidin Smyrna 3 Kastamuni Angora
 4 Konia Adana Cyprus 5 Trebizond Sivas 6 Armenia and
 Kurdistan Erzerum Mamuret el Aziz Karpuz Diarbekir Bitlis
 Van 7 Mesopotamia Mosul Bagdad Basra 8 Aleppo 9 Syria
 Damascus Phenicia Palestine
- 957 Siberia
- 958 Afghanistan Turkestan Baluchistan
 1 N E Afghanistan Kabul 2 South Afghanistan Kandahar
 3 N W Afghanistan Herat 4 Turkestan 5 Kiva 6 Bok
 hara 7 Ferghana or Khokan 8 Baluchistan
- 959 Farther India
 1 British Burma 2 Burma 3 Thailand (Siam) 4 Laos
 5 Lower Siam Malay peninsula 6 Cambodia 7 French
 Cochinchina 8 Anam 9 Tonkin

960 Africa

SUMMARY

- 961 North Africa
- 962 Egypt
- 963 Abyssinia
- 964 Morocco
- 965 Algeria
- 966 North Central Africa
- 967 South Central Africa
- 968 South Africa
- 969 Madagascar and outlying islands

961 North Africa

Barbary i.e. Morocco Algeria Tunis Tripoli

- .1 **Tunis** 50 000 sq mi
French protectorate 1881
- 2 **Tripoli** **Libia Italiana** 406 000 sq mi
Annexed to Italy 1911
Tripolitania
Oasis of Ghadames Syrtis
- 3 **Fezzan** 156 000 sq mi
Oases of Ghat and Murzuk
- 4 **Cyrenaica or Barka** **Bengazi**
- 9 **Libyan desert**
Eastern 3d belongs to Egypt

962 Egypt

Egypt proper including Libyan desert and Sina peninsula but excluding Sudan,
350 000 sq mi. Cultivated and settled area Nile valley and delta 12 226 sq m

- .1 **Lower Egypt** **Masr-el-Bahr** **Delta**
Extends beyond Cairo about 30° N
11 Behcira Alexandria 12 Gharbiya 13 Daqahliya
Damietta 14 Menûfiya 15 Sharqiya Port Said Ismaria
Suez 16 Qalyûbiya Cairo Helopolis
- .2 **Middle Egypt** **el-Wustani** **Vostani**
Extends from Cairo 30° N to Assut, about 27° N
.21 Giza Gizeh Memphis 23 Fayûm 25 Beni Suêf
26 Minya 28 Asyût Assiut
- .3 **Upper Egypt** **es Said**
Extends from Assut 27° N nearly to Wadi Halfa, 23° N
31 Gurga 33 Qena Dendera Luxor Karnak Thebes
.36 Aswan Assuan Elephantine, First Cataract Philae

- 962.4 Anglo-Egyptian Sudan** 1 014,400 sq. mi.
 Extends from 22° to about 5° N 13 provinces
- .41 Nubia Northern provinces**
 In a broad sense, no strictly defined limits may be taken to include Nile valley from Assuan, 24° N to Khartum, 16° N Here used in more limited sense including provinces of Halfa Red Sea and Berber also 962.5 Dongola
- .5 Dongola**
- .6 Central provinces**
 Khartum, White Nile, Blue Nile
- .7 West provinces**
 Including Darfur under native rule
- 8 Kordofan Nuba mts**
- .9 East and south provinces**
 Kassala, Sennar, Upper Nile (formerly Fashoda),
 Bahr-el-Ghazal, Mongalla (including Lado enclave),
 Sobat-Pibor
- 963 Abyssinia Ethiopia** 350 000 sq. mi.
 Tigre Amhara, Shoa
- .5 Entrea** 45 800 sq. mi.
 Massada or Massawah Assab
- 964 Morocco French protectorate** 231 000 sq. mi.
- .1**
- .2 Spanish Morocco The Rif**
 Cities Tangier, Ceuta, Tetuan
- .3 Fez and the northwest coast**
 Region west of Atlas mts and south to Wady Oum-er-Rabia
 Cities Fez, Rabat Casablanca
- .4 Central region**
 Atlas mts Middle Atlas Great Atlas, Anti-Atlas
- .5 Southeast region.**
 Beyond the Atlas mts
- .6 Morocco and southwest coast Marakesh**
 Region south of Wady Oum-er-Rabia
 Cities Morocco Mogador Agadir
- .7**
- .8 Rio de Oro Adrar Ifni (Spanish)**
- .9 Canary isles (Spanish)**
 Geographically better here than in 946.8
 91 Tenerif 92 Grand Canary 93 Palma 94 Gomera
 95 Hierro or Ferro 96 Puerteventura 97 Lanzarote
- 965 Algeria (French)** 222 180 sq. mi.
 Northern Algeria includes the 3 departments, Oran, Alger Constantine
- .1 Oran**
- .3 Alger**
- .5 Constantine**
- .7 Southern Algeria**
 4 territories Ain Sefra, Oghardaia, Touggourt Saharan oases (Tuat Garama-Tidikeit)

966 North Central Africa European West Africa

SUMMARY

- .1 French West Africa Sahara
- 2 Sudan
- 3 Senegambia Senegal
- 4 Sierra Leone
- .5 Upper Guinea
- 6 Liberia Ivory Coast
- 7 Gold Coast Ashanti
- 8 Dahomey Togoland
- 9 Nigeria

.1 French West Africa Sahara

French West Africa includes colonies: 966 12 Mauritania, 966 2 French Sudan
966 25 Upper Volta Colony, 966 26 Military Territory of Niger, 966 3 Senegal
966 52 French Guinea 966 68 Ivory Coast 966 8 Dahomey

.11 Sahara (French)

In broad sense all northern Africa from Atlas mts to the Sudan, about
3 500 000 sq mi. This includes parts of Morocco, Algeria, Tunis and
Egypt. French Sahara is estimated at about 1,500 000 sq mi.

.12 Mauritania 344 967 sq mi.

.15 El Hodh

.17 Azaouad

.2 Sudan (French) Upper Senegal-Niger 617 600 sq mi.

.21 River Niger -

.22 Northwest region

Karta, Bakhumu Sahel

.23 Southwest region

Segu, Kenedugu, Bembas State

.24 Central region

Massina Timbuktu, Lakes

.25 Upper Volta 154,400 sq mi.

Mossi, Gourma

.26 Military Territory of Niger 347,400 sq mi.

.27 Southwest region

Cheggazur, Immanang

.28 North region

Air or Asben

.3 Senegambia Senegal (French) 74,712 sq mi.

Senegambia region between rivers Senegal and Gambia and sometimes in-
cluding French Guinea, name now disused. Senegal now used for northern
portion, including Casamance basin, includes both colony and protectorate

.31 North coast region

Walo, St Louis

.32 Central coast region

Cayor, Baol, Sine, Salum, Cape Verde, Dakar, Rufisque, Gorée

.33

.34 South coast

Basin of the Casamance

.35 Central region

Jolof, Fatick

.36 Northeast region

Fouta, Bondou

.37 Southeast region

Bambuk, River Falemé

966 4	Sierra Leone, colony and protectorate (British)	31 000 sq. mi.
41	Sierra Leone colony 4000 sq. mi.	
	North sect on north of Sherbro island	Freetown
42	South section	Sherbro island Turner's peninsula
43	Protectorate	
44	Karene	
45	Koinadugu	
46	Ronietta	
47	Railway	
48	Southern Sherbro	
5	Upper Guinea	
	Part north of Gulf of Guinea is known as Upper Guinea includes broadly 966 3 Senegal 966 4 Sierra Leone 966 5 English French and Portuguese Guinea 966 6 Liberia, Ivory Coast 966 7 Gold Coast, 966 8 Dahomey Togoland, 966 9 Nigeria	
51	Gambia	English Guinea 4130 sq. mi.
52	French Guinea	95 218 sq. mi.
53	Coast region	Rivières du Sud Konakry
54	Central region	Fouta Jallon
	Timbo Labé Tuba	
55	Northeast region	Sankaran
	D nguray S guiri Kurussa Kankan	
56	South region	
	Kissidugu Beyla B ssandugu	
57	Portuguese Guinea	13 940 sq. mi.
579	Bissagos islands	
58	Cape Verde islands	
6	Liberia 40 000 sq. m.	Grain Coast
	Grain Coast divided between Liberia and 966 4 Sierra Leone	
61	Montserrado	
	Gondo Toma Bouzie Barlin	
62	Coast region	Robertson, Monrovia
63	Grand Bassa	Gurra Sapo
64		
65	Sino	Wau Kru coast
66		
67	Maryland	Cape Palmas
68	Ivory Coast (French)	121 976 sq. mi.
681	Coast region	Grand Bassam Assinie Bingerville
683	Central region	Baule, Bakwe
685	Northwest hinterland	
687	Northeast hinterland	Ganne, Kong

966	7	Gold Coast (British)	80 000 sq. mi.	
		Areas do not include parts of Togoland assigned by treaty to Great Britain		
71		Gold Coast colony proper	24,200 sq. mi.	
72		Western province	Central province	
73		Eastern province		
74		Ashanti	20 000 sq. mi.	
75		Southern province	Central province	Coomassie
76		Western province	Northern province	
77		Northern territories	35 800 sq. mi.	
78		Southern province		
		Kintampo district, Onga district, Salaga		
79		Northwestern province	Black Volta district	Wa
		Northeastern province	White Volta district	Gambaga
8		Dahomey (French)	42 460 sq. mi.	
81		Togoland		
		Former German possession now divided between 966 7 Gold Coast (British) and Dahomey		
82		Lower Dahomey		
83		Coast region	Slave Coast	
		Grand Popo, Kotonu, Porto-Novo		
86		Upper Dahomey		
87		Borgu		
9		Nigeria (British)	332 000 sq. mi.	
91		Southern Nigeria		
92		Western province	Yoruba	Lagos protectorate
		The colony Abeokuta, Ibeju Oyo Ondo		
93		Central province		
		Benin Onitsha, Warri, Niger delta Oil Rivers		
94		Eastern province		
		Owerri, Oyoja,	Kamerun South	
95		Northern Nigeria		
96		West region		
		Sokoto Kontagora, Borgu Nupe Niger Ilorin Kabba		
97		Central region		
		Kano Zaria, Nassawara Munshi Hassa		
98		East region		
		Bama, Bauchi Yola Muri Kamerun North		
99		Islands of the Gulf of Guinea		
991		Fernando Po (Spanish)		
993		Príncipe	Prince's Island	(Portuguese)
994		São Thomé	St Thomas	(Portuguese)
996		Annobon	(Spanish)	

967 South Central Africa

SUMMARY

- 1 Lower Guinea Kamerun
- 2 French Equatorial Africa French Kongo Loango
- 3 Angola Portuguese West Africa
- 4 Interior Ubangi-Shari Chad
- 5 Belgian Congo
- 6 British East Africa
- 7 Somaliland
- 8 Zanzibar Tanganyika territory
- 9 Mozambique Portuguese East Africa

I Lower Guinea

Southern or Lower Guinea comprises coasts of 967.21 Gabon 967.3 Angola and may include coast of Kamerun which occupies a middle position between Upper and Lower Guinea

11 Kamerun [Cameroon] (French) 166 489 sq. m.

General number for former German Kamerun, larger portion of which was assigned to France

- 12 Coast region Jang Yabasi Duala Edea Kribi
- 13 Southwest region Ebolowa Wolo Ntem Ivindo
- 14 Southeast region Lomie Yukaduma
- 15 Central region Bamun Yaunde Dume
- 16 Adamawa Banyo Ngaundere
- 17 Garua Upper Logone
- 18 Spanish Guinea Rio Muni
- 19 Spanish islands

Alternative place for Fernando Po see 966.991 and Annobon see 966.996

.2 French Equatorial Africa French Kongo Loango

French Equatorial Africa includes 967.11 Kamerun, and 967.4 Ubangi-Shari and Chad Military Territory

- 21 Gabon 121 862 sq. mi.
- 22 Coast region Libreville
- 23 East region Franceville, Lastourville
- 24 Middle Kongo 150 292 sq. mi.
- 25 West region
 - Loango Bakunya, Bwensa
- 26 South central region
 - Bacongo Bje Pool (Brazzaville) Bateke Alima, Kwiyu
- 27 North central region
 - Mossaka, Bakota, Bokiba, Lower Sanga Likwala
- 28 North region
 - Benga Motaba, Middle Sanga, Upper Sanga

- 967.3 Angola Portuguese West Africa 484,800 sq. mi.
 31 Kongo Kabinda
 32 Loanda Shinga's country
 Guanza-Norte, Guanza-Sul
 33 Benguela
 34
 35 Mossamedes
 36 Lunda
 37 Huila Gambos Kamba Mulondo
 38 Cubango
 39 Portuguese islands
 Alternative place for Principe see p66 993 and São Thomé see p66 994
- 4 Interior
 41 Ubangi-Shari (French) 208 319 sq. mi.
 East region Banda
 43 Chad Military Territory (French) 501 676 sq. mi.
 Southwest region Bagirmi
 Southeast region Wadai
 Central region Lake Chad Kanem
 Northeast region Borku
 Northwest region Teda or Tibba
 North region Tibesti or Tu
- 5 Belgian Kongo Free State Kongo basin 909 654 sq. mi.
 51 Kongo-Kasai province
 Lower Kongo Boma Bakongo Middle Kongo Leopoldville
 52 Kwango Kasai Sankuru
 53 Equator province
 Lake Leopold II Equator
 54 Lulonga Bangala Ubangi
 55 Eastern province
 Lower Uele Upper Uele Ituri Stanleyville
 56 Aruwimi Lowa Uregga Maniema Kasongo
 57 Kivu Ruanda Urundi
 58 Katanga province
 Lomami Tanganyika Moero Urua
 59 Lulua Upper Luapula

967 6

British East Africa Kenya colony and protectorate

British East Africa includes 967 61 Uganda protectorate 967 62-69 Kenya colony and protectorate 967 81 Zanzibar 967 82-89 Tanganyika territory
Class here general works on whole of British East Africa and those on Kenya colony and protectorate alone

- 61 Uganda protectorate 110 300 sq. mi.
- 611 Buganda province
 - Masaka Mubendi Mengo Entebbe including islands in Victoria Nyanza
- 612 Victoria Nyanza
- 613 Western province
 - Kigez Ankoli Toro
- 614 Albert Nyanza
- 615 Eastern province
 - Busoga Bukedi Teso Lango Lohor Karamoja
- 616 Northern province
 - Bunyoro West Nile Gulu Chua
- 617 Rudolf province
 - Turkwel Turkana Dabossa
- 618 Lake Rudolf
- 62 69 Kenya colony and protectorate 245 822 sq. mi.
- 62 Nyanza province
 - North Kavirondo Nandi Kusumu South Kavirondo Lumbwa
- 63 Naivasha province
 - Southern Masai Reserve Naivasha (dist. ct) Laikipia Eldama Ravine
 - Usin Gishu Turkana
- 64 Kenya province
 - Nyeri Meru Embu Fort Hall
- 65 Ukamba province
 - Kitui Kikuyu Machakos
- 66 Seyidie province
 - Taita Vanga Mombasa Malindi
- 67 Tanaland province
 - Tana River Lamu
- 68 Jubaland province
 - Afnadu Kismayu Serenli
- 69 Northern Frontier District
 - Not yet organized as a province
- 7 Somaliland
- 71 French Somali Coast French East Africa 5790 sq. mi.
 - Obok Tajura Jbuti
- 72 British Somaliland protectorate 68 000 sq. mi.
- 728 Sokotra island 1382 sq. mi.
- 73 Italian Somaliland 139 430 sq. mi.
- 74 Sultanate of the Mijertins
- 75 Territory of the Nogal
- 76 Sultanate of Obbia
- 77 Southern Italian Somaliland (formerly cald Benadir)
 - Medio Shebeli Basso Shebeli Alto Shebeli Alto Iuba

967	8	Zanzibar	Tanganyika territory	
	81	Zanzibar	640 sq mi.	
	815	Pemba	380 sq mi	
	816	Mafia		
	82	89	Tanganyika territory	365 000 sq mi.
			Formerly German East Africa	
	82	North coast		
			Tanga Wilhelmstal Pangani	
	83	Central coast		
			Bagamoyo Morogoro Dar es Salaam	
	84	South coast		
			Rufi 1, Kilwa Linda	
	85	South or Lake Nyasa region		
			Songea Mahenge Langenburg	
	86	South central region		
			Iringa Dodoma	
	87	North central region		
			Kondoa Iranga Moshi Arusha	
	88	Lake Victoria region		
			Mwanza Bukoba	
	89	West or Lake Tanganyika region		
			Tabora U 1, Bismarckburg	
	9	Mozambique	Portuguese East Africa	428 132 sq mi.
	91	Nyasa company	Companhia do Nyasa	Cabo Delgado Querimba
	92			
	93	Mozambique (district)		
	94	Quilmane or Kilmane		Zambezi delta
	95			
	96	Tete		Zambezi basin
	97	Mozambique company	Companhia do Moçambique	
			Gazaland Sofala Manika	
	98	Inhambane	Hlengaland	
	99	Lourenço Marques	Delagoa Bay	

968 South Africa

General number for Union of South Africa 1909, which includes near all area in 968 2-8, with total area of 473 096 sq mi

SUMMARY

- 1 Bechuanaland protectorate
- 2 Transvaal
- 3 Zululand Swaziland Amatonga
- 4 Natal
- 5 Orange Free State
- 6 Basutoland Kaffraria
- 7 Cape of Good Hope
- 8 Southwest Africa protectorate
- 9 Rhodesia Nyasaland protectorate

- .1 Bechuanaland protectorate 275 000 sq mi
 Class here general works on Bechuanaland, including (with the Protectorate) British Bechuanaland 968 785
- .11 Northwest region West Bamangwato
 Use also as general number for Bamangwato tribe, which includes 968 11-14
 Ongova Okavango, Bangai, Batawana
- 12 Northeast region East Bamangwato Bashona,
 Batleli
- 13 North section Madenassa
- 14 South section Khama's country
- 15 Linchwe's country Bakatla tribe
- 16 Sebele's country Bakwena tribe
 Masarwa, Makalahari
- 17 Bathoen's country Bangwaketse tribe
- 18 Montsioa's country Barolong tribe
- .19 Southwest and west region Kalahari desert
 Kalahari desert in broad sense includes all Bechuanaland protectorates and parts of Cape of Good Hope and Southwest Africa protectorate
- .2 Transvaal 110 450 sq mi.
 1852 Transvaal State 1877 annexed by Great Britain 1884 South African Republic, 1900 annexed again, Transvaal, 1910 an original province of Union of South Africa
- 21 Pretoria (county and city)
- 22 Witwatersrand Johannesburg Krugersdorp
- .23 South central counties
 Heidelberg, Standerton, Bethal
- 24 Southeast counties
 Wakkerstroom, Piet Retief, Ermelo, Carolina
- 25 East counties
 Barberton, Lydenburg, Middelburg
- 26 Zoutpansberg Pietersburg
- 27 Waterberg
- 28 Rustenburg Marico
- .29 Southwest counties
 Lichtenburg, Potchefstroom, Wolmaransstad, Bloemhof

- 968.3 **Zululand Swaziland Amatonga**
 Zululand annex to Natal 1897 10 424 sq. mi
- .31 **East region**
 Ndwandwe, Hlabisa, Mhlabatini Emtongjaneni Umfolozi
- .32 **West region**
 Eshowe, Umlalazi Mtunzini Nkandhla, Nqutu
- .33
- .34 **Swaziland** 6678 sq mi.
- 35 **North region Mountains**
 Peak Mbabane
- 36 **South region**
 Ubombo, Mankwana Hlatikulu
- .37 **Amatonga**
 Annex to Zululand 1897
- 38 **North region**
 Ingwayuma, Tongaland Maputa
- .39 **South region Ubombo**
- .4 **Natal** 35 284 sq mi. (including Zululand 10 424 sq mi.)
- .41 **Northern districts**
 Annex from Transvaal to Natal 1903
 Vryheid, Ngotshe Vryheid (district) Babanango
 Utrecht, Paulpietersburg Utrecht (district)
- .42 **Klip River division**
 Newcastle, Dundee, Klip River (district) Umungu, Helpmakaar, Impofana
- .43 **Weenen division**
 Bergville, Upper Tugela, Estcourt, Weenen (district)
- .44 **Umvoti division**
 Krantzkop, Umvoti (district) Mapumulo
- .45 **Pietermaritzburg division**
 Lions River, Howick, Impendhle, Underberg Ipofela, Izopo, New Hanover
 Indwedwe, Umgeni, Umkomazi, Richmond, Camperdown
- .46 **Victoria; Lower Tugela, Inanda**
- .47 **Durban Umluzi**
- .48 **Alexandra**
- .49 **Alfred; Alfred (district), Lower Umzimkulu**

DECIMAL CLASSIFICATION

968	5	Orange Free State	50,382 sq mi
		Orange River Colony 1900-1910	
51		Central region	Bloemfontein (county and city)
52		West region	
		Fauresmith Jacobsdal	
53		Northwest region	
		Boshof Hoopstad	
54		North region	
		Kroonstad Vredefort Heilbron Landley Frankfort	
55		Northeast region	
		Vrede, Harris Smith Bethlehem	
56		Upper east region	
		Senekal Winburg	
57		Lower east region	
		Picksburg Ladybrand, Thabanehu	
58		Southeast region	
		Wepener Rouxville Smithfield	
59		Southwest region	
		Edenburg Bethulie Philippolis	
6		Basutoland Kaffraria	
		Kaffraria east of Kei river formerly independent native kingdom annex to Cape of Good Hope 1875 and now incorporated as 968 63 Griqualand East, 968 64 Pondoland 968 65 Tembuland 968 67 Transkei	
61		Basutoland	11,716 sq mi
		Drakensberg mts form east boundary	
62			
63		Griqualand East	6602 sq mi
		Includes most of region formerly called Nomanaland and afterwards named Adam Kok's Land	
		631 Matatiele 632 Mount Currie 633 Umzimkulu 634	
		Mount Ayliff 635 Mount Frere 636 Mount Fletcher 637	
		Qumbu 638 Maclear 639 Tsolo	
64		Pondoland	3906 sq mi
		British protectorate proclaimed 1885, annex to Cape of Good Hope 1891	
		641 East Pondoland 642 Bizana 643 Flagstaff 644	
		Tabankulu 645 Lusikisiki, Umsikaba 646 Port St John's	
		647 West Pondoland 648 Libode 649 Ngqeleni	
65		Tembuland	3339 sq mi
		Annex to Cape of Good Hope 1885	
		651 Elliot 652 Slang River 653 Xalanga 654 St Mark's	
		655 Engcobo 656 Umtata 657 Bomvanaland 658	
		Mqanduli 659 Elliotdale	
66			
67		Transkei	2504 sq mi
		Annex to Cape of Good Hope 1879	
		.671 Gealeka or Galekaland 672 Willowvale 673 Kentani	
		674 Fingoland 675 Butterworth 676 Idutywa .677	
		Nqamaqwe 678 Tsomo	

- 968.7 Cape of Good Hope 376 966 sq mi Colony proper 208 661 sq mi
 Rounded by Dutch 1652 taken by English 1795. returned 1803 taken again
 1806 formally ceded 1814
- 71 Western province
 711 Cape Town (county) 712 Cape Town (city) 713
 Simon's Town 714 Wynberg 715 Woodstock 718
 Stellenbosch 719 Paarl
- 72 Northwest province
 721 Tulbagh 722 Worcester 723 Ceres 724 Malmesbury
 725 Piquetberg 726 Clanwilliam 727 Calvinia 728 Van
 Rhynsdorp 729 Namaqualand
- 73 Southwest province
 731 Caledon 732 Bredasdorp 733 Robertson 734 Swel
 lendam 735 Riversdale 736 Ladismith 737 Oudtshoorn
 738 Mossel Bay 7385 George 739 Uniondale 7395
 Knysna
- 74 Midland province
 741 Beaufort West 742 Prince Albert 7425 Laingsburg
 743 Aberdeen 7435 Murraysburg 744 Graaff Reinet 745
 Fraserburg 7455 Sutherland 746 Victoria West 7465
 Carnarvon 747 Kenhardt 7475 Prieska 748 Hopetown
 749 Britstown 7495 Richmond
- 75 Southeast province
 751 Humansdorp 752 Willowmore 753 Jansenville 7535
 Steytlerville 754 Uitenhage 755 Port Elizabeth 756
 Alexandria 757 Albany, Grahamstown 758 Bathurst
 759 Peddie 7595 Victoria East
- 76 Northeast province
 761 Fort Beaufort 7615 Stockenström 762 Somerset East
 763 Bedford 764 Cradock 765 Tarka 766 Middel
 burg 7665 Steynsburg 767 Hanover 7675 Philipstown
 768 Colesberg 769 Albert 7695 Molteno
- 77 Eastern province
 771 Aliwal North 772 Herschel 773 Barkly East 774
 Wodehouse 775 Glen Grey 776 Queenstown 777 Cath
 cart 7775 Stutterheim 778 King William's Town 7785
 Komgha 779 East London
- 78 Northern section Griqualand
 781 Herbert 782 Kimberly 783 Barkly 784 Hay
 785 British Bechuanaland 786 Gordonia 787 Kuruman
 7875 Taungs 788 Vryburg 789 Mafeking
- 8 Southwest Africa protectorate 331 400 sq mi.
 Formerly German Southwest Africa
- 81 Great Namaqualand
 82 Luderitz Land Luderitz Bay Angra Pequena 825 Warmbad
 83 Bethany 833 Keetmanshoop 838 Hasuur 84 G'beon
 845 Maltahöhe
- 85 Damaraland or Hereroland
 851 Swakopmund 852 Walvisch or Walvis Bay 853 Rehoboth
 854 Windhoek 855 Gobabis 856 Okahandja 857
 Karibib 858 Omaruru
- 86 Ovambo or Ovampo-land or Aajamba
 87 Outjo Kaoko-land 88 Ambo-land 89 Grootfontein

DECIMAL CLASIFICATION

968	9	Rhodesia	440 000 sq. mi.	Nyasaland protectorate
		British South Africa Company charter 1889		
91		Southern Rhodesia	149 000 sq. m.	
92		Matabele land		
		921 Gwanda (including the former district of Tuli)	922	
		Bulalima Mangwe	9228 Tati district	923 Bulawayo
		924 Matopo	9245 Umz ngwane	925 Insiza 9255
		Belungwe	926 Nyamandhlovu	9265 Bubi 927 Gwelo
		9275 Selukwe	928 Wankie	929 Sebungwe
93		Mashonaland		
		931 Chibi (formerly Mtibi)	932 Victoria	9323 Ndanga
		9327 Melsetter	933 Ch'imanzi	9335 Gutu 934
		Charter	9345 Umtali	935 Hartley 9355 Marandellas
		936 Makoni	9365 Inyanga	937 Salisbury 9374
		Mrewa	9377 Mtoko	938 Mazoe 9385 Darwin
		939 Lomagundi		
94		Northern Rhodesia	291 000 sq. mi.	
		Amalgamation of Northeastern and Northwestern Rhodesia 1911		
95		Northwestern Rhodesia		
951		Barotse or Mabunda	Monkoya or Mankoya	
952				
953		Batoka	Batonga	
954				
955		Kafue	Mashukulumbwe	Walenje
956		Kasempa	Bakwakwa or Bakakwakwa	
957				
958		Loangwa		
1		North region	Bakonde	
5		Walamba		
959		South region	Zumbo	
1		Aluano		
5		Chirunda or Chikunda		
96		Northeastern Rhodesia		
961		Mwera or Mrewa	Luapula or Mere-Mere	Wausi
		Lake Mwera Moero or Meru	Waitawa	Walundi, Wakungu
962				
963		Tanganyika		
		Alungu or Ulungu Amambwe or Mambwe, North Loangwa (a former district which included parts of Tanganyika and Awemba)		
964				
965		Awemba		
		Wasenga	Watwa	Awisa, Lake Bangweulu
966				Bangweulu or Bemba
967		Serenje (formerly West Loangwa)		
968		East Loangwa or Luangwa		
		Awisa	Achewa or Ackewa, Asenga	
97		Nyasaland protectorate	39 573 sq. mi.	
		British Central Africa protectorate 1891 1907		
		971 North Nyasa	972 West Nyasa	9725 Mombasa
		973 Manimba	974 Central Angon land	9741 Lilongwe
		9745 Dedza	975 South Nyasa	976 Upper Shire 9765
		Lwonde	977 West Shire	9775 Zomba 978 Blantyre
		9785 Milenje or Milani	979 Ruw	9795 Lower Shire

969 Madagascar and islands of South Indian Ocean

- 1 Madagascar (French) 225 000 sq mi
- 2
- 3
- 4 Islands north of Madagascar
- 41 Comoro Mayotte or Mauté, Anjouan or Johanna,
 Great Comoro, Moheli or Moali (French)
- 42 Aldabra (British)
- 43 Cosmoledos (British)
- 44 Gloriosa (French)
- 45 Providence (British)
- 46 Farquhar (British)
- 47 Agelaga (British)
- 5 Amirantes or Admiral's (British)
- 6 Seychelles (British)
 29 islets Mahé Praslin Silhouette
- 7 Chagos (British)
 Grand Chagos or Diego Garcia Peros Banhos Solomon Danger Egmont Three
 Brothers or Trois Prées
- 8 Mascarenes and islands east of Madagascar
- 81 Réunion or Bourbon (French)
- 82 Mauritius or Île de France (British)
- 83 Rodrigues (British)
- 84 Cargados, Garayos, St Brandon or Nazareth (British)
 Albatross Cocos Tromelin
- 9 Isolated islands
- 91 Amsterdam
- 92 Saint Paul
- 93 Kerguelen

970 North America

1 Indians aborigines 2 Lives of Indians 3 Special tribes
 4 Special states 5 Government relation and treatment 6 Special subjects character civilization, agriculture etc. May be divided like the whole classification e.g. 970.6738 Indian pottery But when a special number is provided elsewhere for a topic relating to Indians, prefer that number e.g. 371.975 Education of Indians 571.97 Indian ethnology 497 Indian languages

971 Canada British America

General works on Canada under British rule

For histories of special periods see 971 or .054 of special provinces see 971.1.9

For constitutional history see 342.71

Period divisions

For works not limited to any of the territorial subdivisions 1-9 but dealing with a limited period

Class archives with their periods and segregate them if wished by booknumbers that will automatically locate them ahead of other histories having the same class number e.g. A1 A9 if Cutter numbers are used for other works Aa As if Cutter-Sanborn numbers are used

- 01 French regime 1497-1763
From earliest time till cession to England
- 011 Discovery and early settlement 1497-1632
Early explorations along Atlantic seaboard 1497 1533 Discovery and occupation on of St Lawrence 1534-43 Rise of fur trade 1544 1612 Permanent colonization 1613 32
- 016 Extension of English rule 1632-1763
Treaty of St Germain-en Laye 20 Mar 1632
- 018 Struggle with England for supremacy
Peace of Utrecht 1713 Peace of Paris 1763 Seven years war 1753-63 United States ceded French and Indian war British supremacy dates actually from fall of Quebec 1759 formally from peace of Paris 10 Feb. 1763
- 02 End of 7 years war to Constitutional act 1791
Conspiracy of Pontiac 1763-64
Quebec act 1774
- 024 American revolution United Empire loyalists
Canadian libraries will class here United Empire loyalists but works on the revolution 1775 83 are better put in 973.3
- 03 1792 to Union act 1841
See also 971.3 Ontario and 971.4 Quebec
- 034 War of 1812
1812 13 In United States called also 2d war for independence
Better class in 973.52 (United States history)
- 038 Rebellion 1837-38
- 039 Union act 10 Feb 1840
Passage of Union act, closing the period under the Constitutional act. See also constitutional history 342.7109
- 04 Union 1841 to Confederation 1867
Beginning with operation of Union act Canadian parliament at Ottawa 13 June 1841 Class clergy reserve agitation in 971.3 Ontario; abolition of seigneurie in 971.4 Quebec
- 048 Fenian invasions
- 049 British North America act 29 March 1867
- 05 Dominion of Canada 1867
Canada under British North America act
- 051 Red river (Riel's 1st) rebellion 1870
- 054 Northwest (Riel's 2d) rebellion 1885

Geografic divisions

- 971.1 British Columbia
 .2 Northwest Territories
 Including former Hudson Bay territory
 .21 Yukon
 Klondike region Dawson (city)
 22 Mackenzie
 .23 Alberta
 24 Saskatchewan
 26 Keewatin
 .27 Manitoba
 28 Ungava
 29 Franklin
 See also 998 Arctic region
 3 Ontario
 For St Lawrence river see 971.4
 Formerly also Upper Canada or Canada West
 See also 971.4 note. Class here Clergy reserves
 31 Northwestern
 North shore of Lake Superior and Lake Huron Georgian bay
 311 Rainy River district
 Lake of the Woods Rainy lake
 312 Thunder Bay district
 5 Fort William
 313 Algoma district
 Sault Ste Marie
 5 Manitoulin island
 314 Nipissing district
 315 Parry Sound Maganetawan districts
 .316 Muskoka Lake of Bays district
 .317 Simcoe
 .318 Grey Owen Sound (or Sydenham)
 32 Western
 East shore of Lake Huron
 321 Bruce
 322 Huron
 323 Perth
 324
 325 Middlesex
 326 London (city)
 327 Lambton
 33 Southwestern
 North shore of Lake Erie
 331 Essex
 332 Windsor (city)
 333 Kent
 334 Elgin
 335 St Thomas (city)
 336 Norfolk
 337 Haldimand
 .338 Welland

DECIMAL CLASSIFICATION

971 34	West central
341	Dufferin
342	Wellington
343	<i>Guelph (city)</i>
344	Waterloo
345	<i>Kitchener (Berlin) (city)</i>
346	Oxford
347	Brant
348	<i>Brantford (city)</i>
35	Southern
	West and North shore of Lake Ontario
351	Lincoln
	<i>St Catharines (city)</i>
352	Wentworth
	<i>Hamilton (city)</i>
353	Halton Peel
354	York
1	<i>Toronto (city)</i>
355	Ontario
356	Durham
357	Northumberland
358	Hastings
7	Prince Edward
359	Lennox and Addington
36	Central
361	Haliburton
362	
363	
364	Victoria
365	
366	
367	Peterborough
368	<i>Peterborough (city)</i>
369	
37	Southeastern
	St Lawrence river counties
371	Frontenac
372	<i>Kingston (city)</i>
373	Leeds
	Rideau lakes and canal
374	Grenville
375	Dundas
376	Stormont
377	Glengarry
378	
379	
38	Northeastern
	Ottawa river counties
381	Renfrew
382	Lanark
383	Carleton
384	<i>Ottawa (city)</i>
385	Russell
386	Prescott

971 4 Quebec St Lawrence river

Lower Canada or Canada East

From its cession by France to England in 1763 all Canada was one colony the Province of Quebec till 1791 In 1791 it was divided by the constitutional act into 2 provinces Upper Canada (Ontario) and Lower Canada (Quebec) By the union act 1840 the 2 provinces were reunited as the Province of Canada and in 1867 by the British North America act again divided into the provinces of Ontario and Quebec Quebec is from Caudebec (Normandy) home of many of its early settlers.

- 41 Northern
- 411 Mistassini
- 412 Abitibi
- 414 Lake St John
- 416 Chicoutimi
- 417 Saguenay Anticosti island
- 419 Ashuanipi
- 42 Western Ottawa river counties
- 421 Pontiac
- 422 Ottawa (former county)
- 1 Wright
- 2 Hull (city)
- 5 Labelle
- 423 Argenteuil
- 424 Terre Bonne
- 425 Two Mountains
- 426 Vaudreuil
- 5 Soulanges
- 427 Laval
- 428 Hochelaga
- 1 Montreal (city)
- 5 Jacques Cartier
- 43 Southwestern South of the St Lawrence and west of Richelieu river
- 431 Huntingdon
- 432 Beauharnois
- 433 Chateaugay
- 434 La Prairie
- 435 Napierville
- 436 Verchères
- 437 Chambly
- 438 St Johns
- 44 North central North of St Lawrence from Montreal to Saguenay river
- 441 Montcalm
- 6 L Assomption
- 442 Joliette
- 443 Berthier
- 444 Maskinonge
- 445 St Maurice
- 446 Champlain
- 6 Portneuf
- 447 Quebec
- 1 Quebec (city)
- 448 Montmorency
- Île d'Orléans
- 449 Charlevoix

DECIMAL CLASSIFICATION

972.45	South Central
	Counties south of St Lawrence from Richelieu river to Quebec
451	Richelieu
452	St Hyacinthe
5	Bagot
453	Rouville
454	Yamaska
455	Nicolet
456	Drummond
5	Arthabaska
457	Wolfe
5	Megantic
458	Lotbinière
459	Levis
46	Southern
	Southern border from Richelieu river to Lake Megantic
461	Iberville
462	Missisquoi
463	Shefford
464	Brome
465	Richmond
466	Sherbrooke
	Sherbrooke (city)
467	Stanstead
468	Compton
469	Lake Megantic
47	Southeastern
	Lower St Lawrence, southern side from Quebec to Gulf of St Lawrence
471	Beauce
472	Dorchester
473	Bellechasse
5	Montmagny
474	L'Islet
475	Kamouraska
476	Temiscouata
477	Rimouski
5	Matane
478	Bonaventure
479	Gaspé
7	Magdalen islands
.5	New Brunswick
51	Northern
511	Restigouche
512	Gloucester
.52	Eastern
521	Northumberland
522	Kent
523	Westmoreland
	Moncton (city)

- 971 53 Southern
 531 Albert
 532 St John
 St John (city)
 533 Charlotte
 Grand Manan island
 54 Central
 541 Kings
 542 Queens
 543 Sunbury
 55 Western
 551 York
 Fredericton (city)
 552 Carleton
 553 Victoria
 554 Madawaska
 6 Nova Scotia
 61 Northern
 611 Cumberland
 612 Colchester
 613 Pictou
 614 Antigonish
 62 Southern
 621 Guysborough
 622 Halifax co and city
 623 Lunenburg
 624 Queens
 625 Shelburne
 63 Western
 631 Yarmouth
 632 Digby
 633 Annapolis
 634 Kings
 635 Hants
 69 Cape Breton (island)
 691 Inverness
 693 Victoria
 695 Cape Breton
 696 Sydney (city)
 698 Richmond
 7 Prince Edward Island
 71 Prince
 74 Queens
 75 *Charlottetown (city)*
 77 Kings
 8 Newfoundland
 9 Labrador

For Moravian missions see 265.46

972 Mexico Central America

Period divisions

01	Ancient civilization	— 1516
	1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya	
02	Discovery and Spanish rule	1516-1810
03	Independence	1810-1821
04	First empire Iturbide 1 Pronunciamientos	1822-1845
05	War with United States See also 973 6	1845-1848
06	Constitution of 57 Reform	1848-1861
07	French intervention	1861 1867
08	Later history	1867-

Geographic divisions

.1	Free zone and Northern states	
	Tamaulipas Nuevo Leon Coahuila Chihuahua Sonora Durango	
.2	Lower California and islands	
3	Central Pacific states	
	Sinaloa Jalisco Colima Michoacan	
4	Interior states	
	Zacatecas San Luis Potosi Aguascalientes Guanajuato Querétaro Hidalgo Puebla Tlascala Morelos	
5	Mexico Federal district	
6	Southern Gulf states	
	Vera Cruz Tabasco Campeche Yucatan	
7	Southern Pacific states	
	Guerrero Oaxaca Isthmus of Tehuantepec Chiapas	

8 Central America

81	Guatemala	
82	British Honduras Belize	
83	Honduras	
84	Salvador	
85	Nicaragua	
86	Costa Rica	

9 West Indies

91	Cuba	
92	Jamaica	
93	Santo Domingo	
94	Hayti	
95	Puerto Rico	
96	Bahamas	
97	Leeward islands	
98	Windward islands Barbados	
99	Bermudas	

973 United States

SUMMARY OF 973

1	Discovery	—1607
2	Colonial	1607—1775
3	Revolution and confederation	1775—89
4	Constitutional	1789—1809
5	Early 19th century	1809—45
6	Middle 19th century	1845—61
7	Civil war	1861—1865
8	Later 19th century	1865—1901
9	20th century—	1901—

See also 342 73 U S constitutional law and history 328 73 U S legislative bodies and annals 329 Political parties 353 U S government

.1 Discovery

—1607

From earliest times to settlement of Jamestown

See also 970 1-6 American Indians 913 7 American antiquities 571 9: Mounds and mound builders 571 85 Pueblos

.11 Precolumbian

For precolumbian claims of Chinese Norse Welsh, etc see 13 to 14 below

Arabs

Poles

Jews

Germans Martin Behaim

Africans

Italians

Irish

.12 Chinese

.13 Norse

Gunnbjörn

Bjarni Herjulfson

Eric the Red

Thorwald

Leif Ericson

Thorfinn Karlsefne

.14 Welsh

Prince Madoc

.15 Columbus

.16 Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497-1504

Gaspar and Miguel Cortereal 1500-2 Labrador

Juan Ponce de Leon 1513-21 Florida

Vasco Nuñez de Balboa 1513 Pacific ocean

Hernando Cortés 1518-40 See also 971 02 History of Mexico

Fernando da Magalhaens 1518-21 Magellan straits

Francisco Pizarro 1524-41 See also 985 History of Peru

Hernando de Soto 1539-42 Mississippi river

Francisco Vazquez de Coronado 1540-42 New Mexico, Arizona, Colorado

.17 English

John and Sebastian Cabot 1497-1530

Sir John Hawkins 1562-69

Sir Francis Drake 1570-80

Sir Martin Frobisher 1576-78

Sir Humphrey Gilbert 1578-83

Sir Walter Raleigh 1578-1602

John Davis 1585-87

Bartholomew Gosnold 1602-07

DECIMAL CLASSIFICATION

973 18 French

- Giovanni da Verrazano 1524
- Jacques Cartier 1534-44 Canada
- Jean Ribault 1562-65 Florida
- René de Laudonnière 1564-66 Florida
- Samuel de Champlain 1603-35 See also 971 012 H story of Canada

19 Other nations

.2 Colonial period 1607-1775

See also histories of separate colonies

21 Virginia settlement 1607-20

Settlement of Jamestown 13 May 1607 See 973 5 Virginia history

Hudson's voyage 1609 See also 974 7 N Y history

James I 1603-25

22 New England settlement 1620-43

Settlement of Plymouth 21 Dec 1620 See 974 4 Mass history

Pequot war 1636-37 Connecticut

Charles I 1635-49

23 New England confederacy 1643-64

United colonies of New England 19 May 1643

Commonwealth 1649-65

Oliver Cromwell 1655-58

Richard Cromwell 1658-60

.24 Conquest of New Netherland 1664-89

King Philip's war 1675-76 Massachusetts

War with eastern Indians 1675-78 Maine

Sir Edmund Andros governor of New England 1686-89

Charles II 1660-85

James II 1685-88

.25 Early French wars 1689-1732

Witchcraft in New England See 133 4

King William's war 1689-97

Sometimes called in Europe War of the Palatinate

Queen Anne's war 1702-13

Known in Europe as War of the Spanish succession

William III 1689-1702

Anne 1702-14

George I 1714-27

.26 Extension of English rule 1732-63

Settlement of Georgia 1732 See 973 3 Georgia history

King George's war 1744-48

Known in Europe as War of the Austrian succession

Albany convention assembled 19 June 1754

French and Indian war 1755-63

Known in Europe as Seven years war

Braddock's defeat 9 July 1755

Crown Point and Ticonderoga 1758-59

Capture of Louisburg 27 July 1758

Capture of Quebec 18 Sep 1759 Montcalm and Wolfe

Peace of Paris 10 Feb 1763

George II 1727-60

.27 Last years of the colonies 1763-75

See also specially 973 311 Causes of the Revolution

Conspiracy of Pontiac 1763-64

Bouquet's expedition 1763-64

Lord Dunmore's war Apr-Oct 1774 Virginia

George III 1760-1800

973.3 Revolution and confederation

1775-89

SUMMARY OF 973.3

- .31 Political history
- .32 Diplomatic history
- .33 Special campaigns and battles
- .34 General military history
- .35 Naval history
- .36 Celebrations
- .37 Prisons hospitals
- .38 Personal narratives
- .39 Illustrative material

.31 Political history; causes, results

For financial history see 316.73

311 Causes

- 1 Stamp act 1765
- 2 Navigation acts, mercantile policy
Burning of the Gaspe 17 June 1772
- 3 Boston massacre 5 Mar 1770
- 4 Taxation and representation
- 5 Tax on tea 1767 Boston tea party 16 Dec 1773
- 6 Boston port bill 1774

312 Political history 1775-83

Continental congress See 318.73 U S legislative bodies

313 Declaration of independence 4 July 1776 See also 973.361

Mecklenburg declaration 20 May 1775

314 Loyalists, Tories See also 973.381 Treason and traitors

315 Relations of special classes to the Revolution

Clergy and churches

Lawyers

College graduates

316

317 Treaty of peace 1783

Concluded at Paris 3 Sep 1783, ratified 14 Jan 1784

318 Confederation 1783-89

Shay's rebellion 1786-87 Massachusetts

Cession of western territory to United States

.319

.32 Diplomatic history; relations with other nations

Divided like 940 e.g. 973.374 Relations with France 973.376 Relations with Spain

.33 Special campaigns and battles

331 Campaigns of 1775

- 1 Lexington and Concord 19 April See also 973.362
- 2 Bunker Hill 17 June See also 973.366
- 3 Siege of Boston June 1775 March 1776
- 4 Ticonderoga 10 May
Crown Point 12 May
- 5 Canadian expeditions
Montgomery
- 6 Arnold
- 7
- 8 Events in the south

DECIMAL CLASIFICATION

- 973 332 Campaigns of 1776
- 1 Campaign for the Hudson
 - 2 Battle of Long Island 27 Aug
 - 3 British occupation of New York
 - 4 American retreat Sep-Nov 1776
 - Harlem Heights 16 Sep
 - White Plains 28 Oct
 - Fort Washington 16 Nov
 - 5 Washington in the Jerseys Dec 1776 Jan 1777
 - 6 Trenton 26 Dec
 - Princeton 3 Jan 1777
 - 7
 - 8 Events in the south
 - North Carolina
 - Fort Moultrie Sullivan's island 28 June
- 333 Campaigns of 1777
- 1 Events in Connecticut and Rhode Island
 - 2 Burgoyne's campaign
 - Ticonderoga evacuated 6 July
 - Hubbardton Vt 7 July
 - Bennington Vt 16 Aug
 - 3 Freeman's farm or Bemis Heights or Stillwater 19 Sep
 - Bemis Heights or Saratoga 7 Oct
 - Burgoyne's surrender 17 Oct
 - 4 Fort Stanwix or Fort Schuyler or Oriskany 2-22 Aug
 - 5 Clinton's advance up the Hudson
 - Forts Clinton and Montgomery 6 Oct
 - 6 Howe's campaign
 - Brandywine 11 Sep
 - Paoli 20 Sep
 - 7 Philadelphia taken by British 27 Sep
 - Germantown 4 Oct
 - Forts on the Delaware
 - Red Bank or Fort Mercer 22 Oct
 - Mud Island or Fort Mifflin 10-16 Nov
 - 8 Events in south Including Kentucky
- 334 Campaigns of 1778
- 1 Washington at Valley Forge 1777-78
 - 2 Events in middle states
 - Battle of Monmouth 28 June
 - 3 Evacuation of Philadelphia June
 - 4 Indian depredations See also 973 343
 - Wyoming valley 1-4 July
 - 5 Mohawk valley
 - Cherry valley 11 Nov
 - Brant See also 970 2 Indian biography
 - 6 Rhode Island campaign August See also 973 354 Naval history
 - 7 Events in the south
 - Capture of Savannah 29 Dec.
 - 8 Events in northwest 1778-79
 - Clark's expedition
 - Vincennes, Ind. 2 Jan and 20 Feb 1779

- 973 335 Campaigns of 1779
- 1 Events in New England
 - Tryon in Connecticut July
 - 2 Penobscot expedition Aug and Sep.
 - 3 Events in middle states
 - Minisink 19 July
 - 4 Wayne at Stony Point 16 July
 - 5 Paulus Hook 19 Aug
 - 6 Sullivan's expedition July-Sep
 - 7 Events in the south
 - Briar creek 3 Mar
 - Siege of Savannah 23 Sep and 18 Oct.
 - 8 Events in northwest See 973 3343
- .336 Campaigns of 1780
- 1 Southern campaigns
 - Wathaws N C 29 May
 - Ramsour Mills N C 20 June
 - Leslie's expedition into Virginia Oct
 - 2 Siege of Charleston Mar-May
 - 3 Camden S C 16 Aug
 - 4 Kings mountain, S C 7 Oct
 - 5 Events in middle states
 - Springfield N J 23 June
 - Bull's Ferry, N Y 21 July
 - 6 Northern invasion
- .337 Campaigns of 1781
- 1 Southern campaigns
 - 2 Events in Carolinas Jan Ap
 - Cowpens, S C. 17 Jan
 - Guilford, N C 15 Mar
 - Hobkirk's hill, S C 25 Apr
 - 3 Events in Carolinas May-Dec
 - Fort Ninety Six, S C May-June
 - Eutaw Springs S C 8 Sep
 - 4 British in Virginia
 - 5 Siege of Yorktown Sep Oct
 - Surrender of Cornwallis 19 Oct
 - 6 Events in the north
 - 7 Arnold in Connecticut Sep
- .338 Campaigns of 1782
- .339 Events of 1783
- British evacuation of New York 25 Nov See also 973 363

DECIMAL CLASSIFICATION

- 973 34 General military history
 - 341 English side
 - 342 Mercenaries Hessians
 - 343 Indians
 - 344 American side
 - Part taken by special states, specially the northern states Under the number for each state use the book numbers A1-A19 for official publications A2 for lists of revolutionary soldiers
 - 1
 - 2 New Hampshire
 - 3 Vermont Not then a state, admitted 1791
 - 4 Massachusetts
 - 5 Rhode Island
 - 6 Connecticut
 - 7 New York
 - 8 Pennsylvania
 - 9 New Jersey
 - .345 Southern states
 - 1 Delaware
 - 2 Maryland
 - 5 Virginia
 - 6 North Carolina
 - 7 South Carolina
 - 8 Georgia
 - 346 American auxiliaries
 - 347 French
 - 348
 - 349 Special topics
 - Conway cabal 1777-78
 - Mutiny of Pennsylvania line Jan 1781
 - Newburgh addresses 1782-83
- .35 Naval history
 - 351 Events of 1775
 - Capture of the Margarett June 12
 - 352 Events of 1776
 - Escape of British sloop of war Glasgow 6 Ap.
 - Battle of Lake Champlain 11-13 Oct
 - Gen Benedict Arnold
 - 353 Events of 1777
 - Lexington and Alert 20 Sep
 - 354 Events of 1778
 - French fleet at Newport
 - .355 Events of 1779
 - Bon Homme Richard and the Serapis 23 Sep.
 - 356 Events of 1780
 - Trumbull and Watt 2 June
 - 357 Events of 1781
 - Alliance and British brigs Atalanta and Trepassey 28 May
 - .358 Privateers

- 973 36 **Celebrations, anniversaries, commemorations**
 These should usually be class with the special event commemorated, but some
 anniversaries ar of such general character as to be better class here
 For patriotic societies commemorating the revolution see 369 13
- 361 Fourth of July See also 973 313
 362 19th of April See also 973 3311
 363 Evacuation day, New York See also 973 339
 364
 365 Monuments memorials See also 718
 366 Bunker Hill monument See also 973 3311
 367 Washington's various headquarters
 Newburgh N Y.
 Morristown, N J
- 37 **Prisons, hospitals, etc.**
 371 English prisons
 1 Jersey prison ship
 2 Sugar house prison
 372 American prisons
 373 Exchange of prisoners
 374
 375 Medical dep t, surgeons nurses, etc.
 376 Hospitals
 377
 378
 379
- 38 **Personal narrativs, vindications, secret servis**
 381 Treason and traitors See also 973 314 Loyalists stories
 382 Benedict Arnold
 383 Charles Lee
 384
 385 Secret servis, spies
 American side Nathan Hale
 British side Major John André
- 386
 39 **Illustrativ material**
 These numbers should be used mainly for references Poems dramas etc should
 usually be class under their own numbers 811 812 etc. but special collections
 should be class here
- 391 Poetry
 392 Drama
 393 Fiction
 394 Addresses
 395 Sermons
 396 Humor
 397 Pictures
 Paintings drawings caricatures engravings fotograf sculpture
 398 Music
 399 Maps

DECIMAL CLASSIFICATION

- 973 525 Naval history
- 1 Events of 1812
 - Constitution and Guerrière 19 Aug
 - Wasp and Frolic 18 Oct
 - United States and Macedonia 25 Oct
 - Constitution and Java 29 Dec
 - 2 Events on inland waters
 - 3 Events of 1813
 - Hornet and Peacock 24 Feb
 - Chesapeake and Shannon 1 June
 - Pelican and Argus 14 Aug
 - Enterprise and Boxer 5 Sep
 - 4 Events on inland waters
 - Battle of Lake Erie 10 Sep
 - 5 Events of 1814
 - Essex against Phoebe and Cherub 28 Mar
 - Peacock and Epervier 29 Ap
 - Wasp and Reindeer 28 June
 - Wasp and Avon 1 Sep
 - Wasp and Atlanta 21 Sep
 - 6 Events on inland waters
 - Battle on Lake Champlain 11 Sep
 - 7 Events of 1815
 - Capture of frigate President 15 Jan
 - Capture of Cyane and Levant by the Constitution 20 Feb
 - Hornet and Penguin 23 Mar
 - 8 Privateers
- 526 War meetings celebrations anniversaries etc
 See note under 973 36
 See 369 14 societies of the war of 1812
- 527 Prisons hospitals etc
- 1 English prisons Dartmoor
- 528 Personal narratives vindications secret servis
- 529 Illustrativ material Divided like 973 39
- 53 Algerine war
- 54 James Monroe 4 Mar 1817 4 Mar 1825
 Born 28 Ap 1758 died 4 July 1831
 Mississippi admitted 20th state 10 Dec 1817 See 976 2
 Illinois adm tted 21st state 3 Dec 1818 See 977 3
 Purchase of Florida 25 Feb 1819
 Alabama 1819 See 976 1
 Mississippi 1819 See 974 1
 Missouri admitted 24th state 10 Aug 1821 See 977 8
 Monroe doctrine Dec 1823 See 327 73
 Tariff act 22 May 1824 See 337
- 541 First Seminole war 1818
- 55 John Quincy Adams 4 Mar 1825 4 Mar 1829
 Born 11 July 1767 died 23 Feb 1848
 Erie canal completed 1825 See 386
 Panama congress 1826 See 341 1
 Removal of Creek Indians 1825-29 See 970-3
 Tariff act 19 May 1828 See 337

- 973 56 **Andrew Jackson** 4 Mar. 1829-4 Mar. 1837
 Born 15 Mar 1767, died 8 June 1845
 Rotation in office See 351 6
 United States bank See 332 11
 Whig party See 329 4
 Compromise tariff act 3 Mar. 1833 See 337
 Independence of Texas 2 Mar. 1836 See 976 4
 Arkansas admitted, 25th state 15 June 1836 See 976 7
 Specie circular 11 July 1836 See 336 73
 Michigan admitted, 26th state 26 Jan 1837 See 977 4
- 561 Nullification See also 342 73
 Webster and Hayne debate 25-27 Jan 1830
 Nullification ordinance, South Carolina 24 Nov 1832
- .562 **Black Hawk war** 1832
- .57 **Martin Van Buren** 4 Mar. 1837-4 Mar. 1841
 Born 5 Dec. 1782 died 24 July 1862
 Panic of 1837 See 332
 Alton riot 7 Nov 1837 See 326 973
 Burning of Caroline 26 Dec 1837
 Northeast boundary, Aroostook war Feb-Mar 1839
 Amistad case 1839
- 571 **Second Seminole war** 1835-42
- .58 **William Henry Harrison** 4 Mar. 1841-4 Apr 1841
 Born 9 Feb 1773 died 4 Apr. 1841
- John Tyler** 4 Apr. 1841-4 Mar. 1845
 Born 29 Mar 1790, died 18 Jan. 1862
 Dorr's rebellion May-June 1842 See 974 5
 Ashburton treaty, northeast boundary
 Texas annexation resolution 28 Feb 1845
 Florida admitted, 27th state 3 Mar 1845 See 975 9
- .6 **Middle 19th century** 1845-61
- .61 **James Knox Polk** 4 Mar 1845-4 Mar. 1849
 Born 2 Nov 1795, died 15 June 1849
 Texas annex, 28th state 29 Dec 1845 See 976 4
 Wilmot proviso adopted by house 8 Aug 1846 See also 973 7113
 Iowa admitted, 29th state 28 Dec 1846 See 977 7
 Wisconsin admitted, 30th state 29 May 1848 See 977 5
 Free soil party; Buffalo convention Aug 1848 See 329 6
- 611 **Northwest Territory** 12 June 1849
- 62
- 621
- Annexation of Texas**
Acquisition of California, Nevada, Utah, Arizona, etc.
- .622 **Diplomatic history**
- .623 **Special campaigns and battles**
- 1 **Kearny in New Mexico**
- 2 **Fremont in California**
- 3 **Taylor's campaign**
- 4 **On the Rio Grande**
 Palo Alto 8 May 1846
 Resaca de la Palma 9 May
 Matamoras 18 May
- 5 **In Mexico**
 Monterey 20-25 Sep 1846
 Buena Vista 22-23 Feb 1847

DECIMAL CLASSIFICATION

- 973 623 6 Scott's campaign
- 7 Vera Cruz 22-29 Mar 1847
- 8 Cerro Gordo 17-18 Ap
- 8 Battles near Mexico
- Contreras 19-20 Aug
- San Antonio 20 Aug
- Churubusco 20 Aug
- 9 Capture of Mexico
- Molino del Rey 8 Sep.
- Chapultepec 12-13 Sep
- Mexico 14 Sep
- 624 General military history
- 625 Naval history
- 626 War meetings celebrations anniversaries
- See note under 973 35 also 369 145 Aztec club of 1847
- 627 Prisons, hospitals etc
- 628 Personal narrat vs
- 629 Illustrative material See note under 973 39
- 63 Zachary Taylor 5 Mar. 1849-9 July 1850
- Born 24 Sep 1784 died 9 July 1850
- Inaugural ceremony 5 March
- Compromise of 1850, Omnibus bill introduced by Henry Clay
- 29 Jan 1850 See also 326 973 and 973 7113
- .64 Millard Fillmore 9 July 1850-4 Mar 1853
- Born 7 Feb 1800 died 7 Mar 1874
- Clayton Bulwer treaty 4 July 1850 See also 326
- California admitted, 31st state 9 Sep 1850 See 979 4
- Fugitive slave law 18 Sep 1850 See 326 973
- Popular sovereignty, or squatter sovereignty See 342 73 and 326 973
- Filibustering expeditions to Cuba 1847-51 See 972 91
- 65
- 66 Franklin Pierce 4 Mar 1853-4 Mar. 1857
- Born 23 Nov 1804 died 8 Oct 1869
- Know nothing party See also 329 5
- Republican party See also 329 6
- Com Perry's expedition to Japan 1852-54 See also 952 025122 and 1341 273
- Gadsden treaty with Mexico for purchase of southern Arizona and New Mexico 30 June 1854
- Kansas Nebraska bill 30 May 1854 See also 326 973 978 1 and 978 2
- Ostend manifesto 18 Oct 1854 See also 977 91
- Walker's filibuster expedition against Nicaragua 1855 See also 972 85
- .67
- .68 James Buchanan 4 Mar 1857-4 Mar 1861
- Born 23 Ap 1791 died 1 June 1868
- Dred Scott decision 6 Mar 1857 See also 326 973 and 973 7113
- LeCompton constitution Kansas proslavery 7 Nov 1857
- See also 978 1
- Minnesota admitted 32d state 11 May 1858 See 977 6
- Oregon admitted 33d state 14 Feb 1859 See 979 5
- John Brown's raid 16-17 Oct 1859 See also 973 7116 and 326 973
- Kansas admitted, 34th state 29 Jan 1861 See 978 1
- .69

973 7 Civil war War of secession 4 Mar 1861—15 Ap 1865

SUMMARY OF 973 7

- 71 Political history
- 72 Diplomatic history
- 73 Special campaigns and battles
- 74 General military history
- 75 Naval history
- 76 Celebrations
- 77 Prisons hospitals
- 78 Personal narratives
- 79 Illustrative material

Abraham Lincoln

4 Mar 1861—15 Ap 1865

71

West Virginia admitted 35th state 19 June 1863 See 975 4

Nevada admitted 36th state 31 Oct 1864 See 979 3

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Causes

- 1 Slavery See also 326
- 2 Extension of slavery
 - Annexation of territory
 - Slavery in the territories.
- 3 Compromises
 - Missouri compromise 1820 See also 973 34
 - Wilmot proviso 1846 See also 973 61
 - Compromise of 1850 See also 973 63
- 4 Abolition movement
 - Murder of Elijah P Lovejoy 7 Nov 1837
 - Assault on Charles Sumner by Preston S Brooks 22 May 1856
- 5 Fugitive slaves
 - Underground railway
 - Dred Scott case See also 973 68
- 6 John Brown's raid See also 973 68
- 7 States rights
- 8 Tariff See also 337

712

Efforts to preserve peace

- Crittenden compromise introduced 18 Dec 1860
- Peace conference 4—27 Feb 1861

713

Secession action in various states

- South Carolina 20 Dec 1860
- Mississippi 9 Jan 1861
- Florida 10 Jan
- Alabama 11 Jan
- Georgia 19 Jan
- Louisiana 26 Jan
- Texas 1 Feb
- Confederate States of America formed 4 Feb
- Virginia 17 Ap
- Arkansas 6 May
- North Carolina 20 May
- Tennessee 8 June

For constitutional conventions see subdivisions of 343 proceedings and documents of Confederate congress and of state legislatures see subdivisions of 328

714

Results of the civil war

- Emancipation proclamation 1 Jan. 1863 See also 326 3
- Freedmen's bureau See 361

For the present condition of negro see 325 26

For negro colony in Liberia, Africa, see 325 6 history of Liberia 966 6

DECIMAL CLASSIFICATION

- 973 715 Relations of special classes to the civil war
 - Clergy and churches Colleges students and graduates
- 716 Southern side
- 717 Unionists in the south
- 718 Secessionists in the north
- 72 Diplomatic history relations with other nations
 - D v ded l ke 940 e g 973 722 Relations with England 973 727 Russia
- 729 Diplomatic history of Confederate States
 - D v ded l ke 940 e g 973 7214 Relations of Confederate States with France
- 73 Special campaigns and battles
 - General arrangement of topics is based on *Official records of the Union and Confederate armies* pub by the U S The indexes of those volumes can be used as a minute subject index for subdivisions of 973 73
- 731 Campaign of 1861
 - 1 Operations in Charleston harbor S C 20 Dec 1860 14 Ap 1861
 - Bombardment of Fort Sumter 12 14 April
 - 2 Operations in other southern states (see *Official records* v 1)
 - 3 Maryland Pennsylvania Virginia West Virginia 16 Ap 31 July
 - Riot at Baltimore Md 19 April
 - Engagement at Big Bethel or Bethel Church Va 10 June
 - 4 Battle of Bull Run or Manassas Va 21 July
 - 5 Missouri Arkansas Kansas Indian Territory 10 May 19 Nov
 - 6 Texas New Mexico Arizona 11 June 1 Feb 1862
 - Kentucky Tennessee 1 July 19 Nov
 - North Carolina southeastern Virginia 1 Aug 11 Jan 1862
 - 7 Maryland northern Virginia West Virginia 1 Aug 17 Mar 1862
 - 8 Engagement at Ball's Bluff Va 21 Oct
 - Action near Edwards Ferry Va 22 Oct
 - 9 S Carolina Georgia middle and east Florida 21 Aug 11 Ap 1862
- 732 Campaign of 1862
 - 1 West Florida southern Alabama southern Mississippi Louisiana
 - 1 Sep 1861-12 May 1862
 - Capture of New Orleans La 18 Ap 1 May
 - 2 Kentucky Tennessee north Alabama southwest Virginia
 - 19 Nov 1861 4 March 1862
 - Capture of Fort Henry Tenn 6 Feb
 - Siege and capture of Fort Donelson Tenn 12 16 Feb
 - 3 Missouri Arkansas Kansas Indian T 19 Nov 1861-10 Ap 1862
 - Battle of Pea Ridge or Elkhorn Tavern Ark 6 8 Mar
 - 4 Southeastern Virginia 11 Jan 17 Mar
 - Battle of Merrimac and Monitor See 973 752
 - North Carolina 11 Jan 20 Aug
 - Burnside expedition
 - Battle of Roanoke Island N C 8 Feb
 - Texas New Mexico Arizona 1 Feb 20 Sep
 - 5 Kentucky Tennessee north Mississippi north Alabama south west Virginia 4 Mar 10 June
 - Siege of Corinth Miss 29 Ap 10 June
 - 6 Battle of Pittsburg Landing or Shiloh Tenn 6 7 Ap

973 732

Campaign of 1862 *continued*

- 7 Peninsular campaign, Va 17 Mar-2 Sep
Siege of Yorktown Va 5 Ap-4 May
Battle of Fair Oaks, or Seven Pines, Va 31 May-2 June
Seven-days battles 25 June-1 July
- 8 Northern Virginia West Virginia, Maryland 17 Mar-2 Sep
Battle of Cedar Run, or Cedar (Slaughter) mountain Va 9 Aug
Second battle of Bull Run, or Manassas, Va 30 Aug
- 9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N W
10 Ap-20 Nov

733

Campaign of 1862 *concluded*

- 1 South Carolina, Georgia, middle and east Florida 12 Ap 1862-
11 June 1863
- 2 West Florida, southern Alabama, southern Mississippi, Louisiana
12 May 1862-14 May 1863
Texas, New Mexico Arizona 20 Sep 1862-14 May 1863
- 3 Kentucky, middle and east Tennessee north Alabama, southwest
Virginia 10 June-31 Oct
- 4 West Tennessee, northern Mississippi 10 June-20 Jan 1863
Battle of Corinth, Miss 3-4 Oct
- 5 North Carolina, southeastern Virginia 20 Aug 1862-3 June 1863
- 6 Northern Virginia, West Virginia, Maryland, Pennsylvania
3 Sep-14 Nov
Battle of South Mountain, Md. 14 Sep
Battle of Antietam, or Sharpsburg Md. 16-17 Sep
- 7 Kentucky, middle and east Tennessee north Alabama, southwest
Virginia 1 Nov-20 Jan 1863
Battle of Stone river, or Murfreesboro, Tenn 31 Dec 1862-
3 Jan 1863
- 8 Northern Virginia, West Virginia Maryland, Pennsylvania
15 Nov-25 Jan 1863
- 9 Battle of Fredericksburg, Va 11-15 Dec

.734

Campaign of 1863

- 1 Missouri, Arkansas, Kansas Indian Territory, Dep't of Northwest
20 Nov 1862-31 Dec 1863
- 2 Kentucky, middle and east Tennessee north Alabama, southwest
Virginia 21 Jan-10 Aug
Middle Tennessee, or Tullahoma campaign 23 June-7 July
Morgan's Ohio raid 2-26 July
- 3 Mississippi, west Tennessee 20 Jan-10 Aug
- 4 Siege of Vicksburg Miss 19 May-4 July
- 5 Northern Virginia, West Virginia, Maryland Pennsylvania
26 Jan.-3 June
- 6 Chancellorsville, Va campaign 27 Ap-6 May
- 7 West Florida, southern Alabama, southern Mississippi Louisiana
Texas, New Mexico 14 May-31 Dec
Siege of Port Hudson, La 21 May-8 July
- 8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania
Dep't of East 3 June-3 Aug
- 9 Battle of Gettysburg, Pa 1-3 July

973 735

Campaign of 1863 *concluded*

- 1 South Carolina, Georgia, middle and east Florida 12 June-31 Dec.
Operations on Morris island, S C 10 July-7 Sep
Occupation of Battery Wagner, S C 6-7 Sep
Bombardment of Fort Sumter, S C 17 Aug-31 Dec
Bombardment of Charleston S C 21 Aug-31 Dec
- 3 North Carolina, Virginia West Virginia Maryland Pennsylvania
4 Aug 31 Dec
Bristoe, Va campaign 9-22 Oct
Mine Run Va campaign 26 Nov-2 Dec
- 4 Kentucky, southwest Virginia, Tennessee, Mississippi north Ala-
bama north Georgia 11 Aug-19 Oct
- 5 Chickamauga Ga campaign 16 Aug-22 Sep
Battle of Chickamauga, Ga 19 20 Sep
- 6 East Tennessee campaign 16 Aug-19 Oct
- 7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Ala-
bama, north Georgia 20 Oct-31 Dec
- 8 Knoxville, Tenn campaign 4 Nov-23 Dec
Siege of Knoxville, Tenn 17 Nov-4 Dec
- 9 Chattanooga Ringgold campaign 23 27 Nov
Battle of Lookout mountain, Tenn 24 Nov
Battle of Missionary ridge Tenn 25 Nov

736

Campaign of 1864

- 1 Kentucky, southwest Virginia, Tennessee Mississippi Alabama
north Georgia 1 Jan-30 Ap
Meridian Miss expedition 3 Feb-6 Mar
Forrest's expedition into west Tennessee and Kentucky
16 Mar-14 Ap
Capture of Fort Pillow, Tenn 12 Ap
- 2 N Carolina, Virginia W Va Maryland Pennsylvania
1 Jan 30 Ap
Expedition against New Berne, N C 28 Jan-10 Feb
Engagement at Morton's Ford Va 6-7 Feb
Kilpatrick's expedition against Richmond, Va 28 Feb-4 Mar.
- 3 Louisiana, trans Mississippi 1 Jan-30 June
Red river, La campaign 10 Mar-22 May
Camden Ark expedition 23 Mar-3 May
- 4 South Carolina Florida Georgia coast 1 Jan-13 Nov
Charleston S. C harbor and vicinity
Florida expedition 5 22 Feb
Engagement at Olustee or Ocean Pond Fla 20 Feb
- 5 Southeastern Virginia North Carolina 1 May-12 June
Engagement at Proctor's Creek and Drewry's Bluff or Fort
Darling, Va 12-16 May
Operations on the Bermuda Hundred Va front 17 May-2 June
Engagement at Petersburg Va 9 June
Battle of the Wilderness Va 5-7 May
- 6 Operations about Spottsylvania Court House, Va 8-21 May
- 7 Operations at and about Cold Harbor, Va. 31 May-12 June
- 8 Northern Virginia, West Virginia, Maryland Pennsylvania
1 May-3 Aug
Engagement at New Market, Va 15 May
Lynchburg Va campaign 26 May-29 June
Battle of the Monocacy, Md 9 July
Action near Fort Stevens D. C. 12 July

973 737

Campaign of 1864 *concluded*

- 1 Northern Georgia 1 May-8 Sep
Atlanta, Ga campaign
Battle of Atlanta, Ga 22 July
- 2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama
north Georgia 1 May-13 Nov
Engagement at Harrisburg, near Tupelo, Miss 14-15 July
Operations in Mobile bay, Ala 2-23 Aug S 973 754
Engagement at Allatoona, Ga 5 Oct
- 3 Southeastern Virginia, North Carolina 13 June-31 July
Richmond, Va campaign
Assaults on the Petersburg lines 15-18 June
Explosion of the mine and assault on the crater 30 July
- 4 Louisiana, trans Mississippi 1 July-31 Dec.
Price's Missouri expedition 29 Aug-2 Dec
- 5 Southeastern Virginia, North Carolina 1 Aug-31 Dec
Richmond, Va campaign
Expedition to Fort Fisher, N C 7-27 Dec
- 6 Northern Virginia, West Virginia, Maryland, Pennsylvania
4 Aug-31 Dec.
- 7 Shenandoah valley campaign, Va 7 Aug-28 Nov
Battle of Winchester, or the Opequon, Va. 19 Sep
Battle of Cedar creek Va 19 Oct
- 8 South Carolina, Georgia, Florida 14 Nov-31 Dec.
Savannah, Ga campaign, or Sherman's march to the sea
15 Nov-21 Dec
- 9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama
north Georgia 14 Nov-23 Jan 1865
Battle of Franklin, Tenn 30 Nov.
Battle of Nashville, Tenn 15 16 Dec

738

Campaign of 1865

- 1 Northern and southeastern Virginia, North Carolina, West Virginia,
Maryland Pennsylvania 1 Jan 30 June
- 2 Richmond, Va campaign 1 Jan-3 Ap
- 3 Expedition to and capture of Fort Fisher, N C 3-17 Jan
- 4 Appomattox, Va campaign 29 Mar-9 Ap
Battle of Five Forks, Va 1 Ap
Surrender of Gen Lee 9 Ap
- 5 North Carolina South Carolina, southern Georgia, east Florida
1 Jan-30 June
Campaign of the Carolinas 1 Jan-26 Ap
- 6 Louisiana, trans Mississippi 1 Jan-30 June
- 7 Kentucky, southwestern Virginia, Tennessee, northern and central
Georgia, Mississippi Alabama west Florida 1 Jan-30 June
Wilson's raid from Chickasaw to Selma, Ala and Macon, Ga.
22 Mar-24 Ap
- 8 Mobile, Ala campaign 17 Mar-4 May
- 9 Pacific coast 1 Jan 1861-30 June 1865

DECIMAL CLASSIFICATION

- 973 77 Prisons, hospitals, charities, etc
 - 771 Southern prisons prison life
 - 1 Andersonville
 - 2 Libby prison
 - 772 Northern prisons
 - 773 Exchange of prisoners paroles
 - 774
 - 775 Medical dep t surgeons nurses For m litary surgery see 617 99
 - 776 Hospitals hospital sketches
 - 777 Charities
 - For Soldiers homes see 362 8
 - Soldiers o phan asylums see 362 75
 - Freedmen s bureau see 361 3
 - Pensions see 351 5
 - 1 U S san tary commission
 - 2 Sanitary fairs
 - 778 Religious life chaplains revivals
 - 1 U S Christian commission See also 267 11
 - 78 Personal narratives, vindication, secret servis
 - Personal n r at vs wh n relat ng to some spec al battle or event should be class accord ng to the r subject
 - 781 Personal narratives northern side
 - Includ ng volumes of G A R. papers and Loyal legion
 - 782 Personal narratives southern side
 - 783 Army life
 - 784 Southern army life southern home life
 - 785 Secret servis spies
 - 786 Southern side
 - 79 Illustrativ material
 - See note under 973 39
 - 791 Poetry
 - 792 Drama
 - 793 Fiction
 - 794 Addresses
 - 795 Sermons
 - 796 Humor
 - 797 Pictures
 - Pa nt ngs draw ngs car catures engravings fotografs sculpture
 - 798 Music
 - 799 Maps
- 8 Later 19th century 1865-1901
- Period of reconstruction and civil servis reform
- .81 Andrew Johnson 15 Ap 1865 4 Mar 1869
 - Born 29 Dec 1808 d ed 31 July 1875
 - 13th amendment abolishing slavery adopted 18 Dec 1865
 - See also 326 8 and 347 739
 - Peman invasion of Canada 31 May-2 June 1866 See also 97 045
 - Nebraska admitted 37th state 1 Mar 1867 S e 978 1
 - Cession of Alaska by Russia 20 June 1867
 - Impeachment of Pres Johnson Mar-May 1868 See 351 99
 - 14th amendment guaranteeing citizenship adopted 28 July 1868
 - See 347 739

- 973 81 Ulysses Simpson Grant** 4 Mar. 1869-4 Mar. 1877
 Born 27 Jan 1822, died 23 July 1885,
 Treaty for annexation of Santo Domingo, signed 29 Nov. 1869,
 rejected by senate 30 June 1870 See also 972 93
 15th amendment guaranteeing suffrage, adopted 30 Mar. 1870
 See 324 15 and 342 739
 First provision for civil service reform 3 Mar. 1871 See also 351 6
 Geneva arbitration award 14 Sep. 1872 See 341 6 973 722 973 757
 Northwestern or San Juan boundary decision, Emperor William
 I of Germany, arbitrator 23 Oct. 1872
 Crédit mobilier investigation Dec. 1872-Feb. 1873
 Coinage act 12 Feb. 1873 See 331 17
 Modoc war, California Nov. 1872-June 1873
 Financial panic 19-30 Sep. 1873 See 331
 Virginian incident Oct.-Dec. 1873
 Whisky ring 1872-75 See 336 73
 Civil rights act 1 Mar. 1875
 Colorado admitted, 38th state 1 Aug. 1876 See 973 8
 Centennial exposition, Philadelphia 10 May-10 Nov. 1876 See 606
 Electoral commission Feb. 1877
- .83 Rutherford Birchard Hayes** 4 Mar. 1877-4 Mar. 1881
 Born 4 Oct. 1822, died 17 Jan. 1893
 Halifax fishery award 23 Nov. 1877
 Bland silver act 28 Feb. 1878 See 331 47
 Resumption of specie payment 1 Jan. 1879 See 332 52 and 336 73
- .84 James Abram Garfield** 4 Mar. 1881-19 Sep. 1881
 Born 19 Nov. 1831, died 19 Sep. 1881
Chester Alan Arthur 19 Sep. 1881-4 Mar. 1885
 Born 5 Oct. 1830, died 18 Nov. 1886
 International cotton exposition 5 Oct.-31 Dec. 1881 See 605
 Edmund act to suppress polygamy 22 Mar. 1882 See also 289 3
 Pendleton civil service reform act 11 Jan. 1883 See 351 6
- .85 Grover Cleveland** 4 Mar. 1885-4 Mar. 1889
 Born 18 Mar. 1837, died 24 June 1908
 Act regulating the presidential succession 19 Jan. 1886 See 351 03
 Mexican war pension act 29 Jan. 1887 See 351 5
 Act creating Interstate commerce commission 4 Feb. 1887 See 385
 Dependent pension bill vetoed 11 Feb. 1887 See 351 5
 Centennial anniversary of Constitution, Philadelphia, Pa.
 15-17 Sep. 1887
 Act to establish the Labor department 13 June 1888 See 331 06173
 Fisheries treaty, signed 15 Feb. 1888, rejected by senate 21 Aug.
 1888
 See 333 91 and 341 273
 Act to make Agriculture department an executive department 9 Feb. 1889
 See also 630 6173 and 353 8

- 973 86 Benjamin Harrison 4 Mar 1889-4 Mar. 1893
 Born 20 Aug 1833 d ed 13 Mar 1901
 Opening of Oklahoma 2 Ap 1889 See 976 6
 North Dakota admitted 39th state 2 Nov 1889 See 973 4
 South Dakota admitted, 40th state 2 Nov 1889 See 973 3
 Montana admitted 41st state 8 Nov 1889 See 978 6
 Washington admitted 42d state 11 Nov 1889 See 979 7
 International Amer conference 2 Oct 1889-19 Ap 1890 See 341 1
 Idaho admitted 43d state 3 July 1890 See 979 6
 Wyoming admitted 44th state 10 July 1890 See 978 7
 Sherman silver act repealing silver act of 1878 14 July 1890
 See 332 47
 McKinley tariff act 1 Oct 1890 See 337
 Controversy with Chile Oct 1891-July 1892 See 933
 Geary Chinese exclusion act 5 May 1892 See 325 233
 Bering sea arbitration treaty 23 Aug 1892
 Hawaiian annexation treaty sent to senate 15 Feb 1893 with
 drawn 9 Mar 1893 See 996 9
- .87 Grover Cleveland, second term 4 Mar 1893-4 Mar 1897
 World's Columbian exposition Chicago 1 May 30 Oct 1893
 See 606
 Decision of Bering sea court of arbitration 15 Aug 1893
 Voorhees silver act 1 Nov 1893 See 332 47
 Wilson tariff act 27 Aug 1894 See 337
 Income tax law decided unconstitutional by U S supreme court
 8 Ap 1895 See 335 24
 U S commission on boundary between Venezuela and Brit sh
 Guiana appointed 1 Jan 1896 See 937
 Utah admitted 45th state 4 Jan 1896 See 979 2
- .88 William McKinley 4 Mar 1897 14 Sep 1901
 Born 29 Jan 1844 died 14 Sep 1901
 Dingley tariff act 24 July 1897
 Annexation of Hawaii 7 July 1898
- 89 War with Spain
 War declared 21 Ap 1898
 Protocol signed 12 Aug 1898
 Treaty of peace signed at Paris 10 Dec 1898 ratified 11 Apr 1899
- 891 Political history causes results
 Spanish misrule in Cuba
 Destruction of battleship Maine 15 Feb 1898
 Acquisition of Philippines and Puerto Rico
- 892 Diplomatic history
- 893 Special campaigns and battles
 Siege of Santiago 22 June-17 July 1898
 Battle of El Caney 1 July 1898
- .894 General military history May be subdivided like 973 74
- 895 Naval history
 Battle of Manila 1 May 1898
 Sinking of the Merrimac 3 June 1898
 Destruction of Cervera's squadron 3 July 1898
- 896 War meetings celebrations anniversaries
 See note under 973 36
 For patriotic societies commemorating the war with Spain see 369.15: 153
- 897 Prisons hospitals etc.
- 898 Personal narratives
- 899 Illustrative material
 See note under 973.30

973 9 20th century—

1901—

.91 Early 20th century

1901—

911 Theodore Roosevelt

14 Sep. 1901—4 Mar. 1909

Born 27 Oct 1858 died 6 Jan 1919

Oklahoma admitted, 46th state

16 Nov 1907

See 976 6

912 William Howard Taft

4 Mar. 1909—4 Mar. 1913

Born 15 Sep 1857 died 8 Mar 1930

New Mexico admitted, 47th state

6 Jan 1912

See 978.9

Arizona admitted, 48th state

14 Feb 1912

See 979 1

16th amendment, authorizing income taxes, adopted 25 Feb 1913

913 Woodrow Wilson

4 Mar. 1913—4 Mar. 1921

Born 28 Dec 1856 died 3 Feb 1924

The World war, begun with Austria's declaration of war against Serbia, 28 July 1914, was formally entered by United States with a declaration of war against Germany, 6 Apr 1917, armistice signed by the Germans 11 Nov 1918, treaty of Versailles signed by treaty plenipotentiaries of Germany and the Allied Powers 28 June 1919, treaties with Germany, Austria and Hungary ratified by United States senate 18 Oct 1921

17th amendment, authorizing election of U S senators by direct popular vote, adopted 31 May 1913

Federal trade commission act 5 Aug 1914

Panama canal opened 15 Aug 1914

Danish West Indies bought 17 Jan 1917

18th amendment (liquor prohibition) adopted 29 Jan 1919

19th amendment, authorizing woman suffrage, adopted 18 Aug 1920

914 Warren Gamahel Harding

4 Mar 1921—2 Aug 1923

Born 2 Nov 1865 died 2 Aug 1923

Immigration act 19 Aug 1921

Washington conference 12 Nov 1921—6 Feb 1922

915 Calvin Coolidge

2 Aug 1923—4 Mar 1929

Born 4 July 1872 died 5 Jan 1933

Dawes commission 1924

.916 Herbert Clark Hoover

4 Mar 1929—4 Mar. 1933

Born 10 Aug 1874

917 Franklin Delano Roosevelt

4 Mar. 1933—

Born 30 Jan. 1882

974 Northeastern or North Atlantic New England

.1 Maine

Admitted 15 Mar 1820 as 23d state

Area 33 040 sq mi 16 counties

Sobriquets: Pinetree state, Polar Star state Capital Augusta

.11 Aroostook

.12 Somerset

125 Piscataquis

13 Penobscot

.14 Washington

145 Hancock

.15 Waldo

.153 Knox

.157 Lincoln

.16 Kennebec

.17 Franklin

.175 Oxford

.18 Androscoggin

.185 Sagadahoc

.19 Cumberland

.191 *Portland*

.195 York

.2 New Hampshire

Area 9341 sq mi 10 counties

Sobriquet Granite state Capital Concord

.21 Coos

.22 *White mts*

.23 Grafton

24 Carroll

.245 Belknap

.25 Strafford

.26 Rockingham

27 Merrimac

.275 Sullivan

.28 Hillsboro

.29 Cheshire

.3 Vermont

Area 9564 sq mi 14 counties

Sobriquet Green Mt state Capital Montpelier

.31 Grand Isle

313 Franklin

317 Chittenden

.32 Orleans

325 Essex

.33 Caledonia

335 Lamoille

.34 Washington

.35 Addison

.36 Orange

.365 Windsor

.37 Rutland

.38 Bennington

.39 Windham

974-4

Massachusetts

Area 8266 sq. mi. 14 counties
 Soubriquet Bay state Cap tal Boston

- 41 Berkshire
- 42 Franklin
- 423 Hampshire
- 426 Hampden
- 43 Worcester
- 44 Middlesex
- 45 Essex
- 46 Suffolk
- 461 *Boston*
- 47 Norfolk
- 48 Plymouth
- 485 Bristol
- 49 Barnstable
- 494 Dukes
- 497 Nantucket

5 Rhode Island

Area 1248 sq. mi. 5 counties
 Soubriquet Little Rhody Cap tal Providence

- 51 Providence
- 52 *Providence (city)*
- 53 *Providence* *
- 54 Kent
- 55 Bristol
- 56 Newport
- 57 *Newport (city)*
- 58 *Block island*
- 59 Washington

.6 Connecticut

Area 4965 sq. mi. 8 counties
 Soubriquet Wooden Nutmeg state Capital Hartford

- 61 Litchfield
- 62 Hartford
- 63 *Hartford (city)*
- 64 Tolland
- 645 Windham
- 65 New London
- 66 Middlesex
- 67 New Haven
- 68 *New Haven (city)*
- 69 Fairfield

974 7

New York

Area 49 204 sq. ml. 61 counties (exclusive of Bronx)

Sobriquet Empire state Capital Albany

- 71 *New York (city)*
- 72 *Vicinity of New York city*
- 721 *Long Island*
- 722 *Kings county*
- 723 *Brooklyn*
- 724 *Queens county*
- 5 *Nassau "*
- 725 *Suffolk "*
- 726 *Richmond " Staten Island*
- 727 *Westchester "*
- 5 *Bronx boro (and county)*
- 728 *Rockland county*
- 73 *Southeast counties*
- 731 *Orange West Point*
- 732 *Putnam*
- 733 *Dutchess*
- 734 *Ulster*
- 735 *Sullivan*
- 736 *Delaware*
- 737 *Green*
- 738 *Catskill mts*
- 739 *Columbia*
- 74 *Middle east counties*
- 741 *Rensselaer*
- Troy*
- 742 *Albany*
- 743 *Albany (city)*
- 744 *Schenectady*
- 745 *Schoharie*
- 746 *Montgomery*
- 747 *Fulton*
- 748 *Saratoga "*
- 749 *Washington*
- 75 *Northern counties*
- 751 *Warren*
- Lake George*
- 752 *Hamilton*
- .753 *Essex*
- Adirondacks*
- .754 *Clinton*
- Lake Champlain*
- .755 *Franklin*
- .756 *St Lawrence*
- .757 *Jefferson*
- .758 *Thousand Islands*
- .759 *Lewis*

New York

974-76	North central counties
.761	Herkimer
.762	Oneida
.763	<i>Utica</i>
.764	Madison
.765	Onondaga
.766	<i>Syracuse</i>
.767	Oswego
.768	Cayuga
.769	Seneca
.77	South central counties
.771	Tompkins
.772	Cortland
.773	Chenango
.774	Otsego
.775	Broome
.776	<i>Binghamton</i>
.777	Tioga
.778	Chemung
.779	<i>Elmira</i>
.78	West central counties
.781	Schuyler
.782	Yates
.783	Steuben
.784	Allegany
.785	Livingston
.786	Ontario
.787	Wayne
.788	Monroe
.789	<i>Rochester</i>
.79	Western counties
.791	Orleans
.792	Genesee
.793	Wyoming
.794	Cattaraugus
.795	Chautauqua
.796	Eric
.797	<i>Buffalo</i>
.798	Niagara
.799	<i>Niagara Falls</i>

974 8

Pennsylvania

In territory claimed in 17th century by Sweden and then called New Sweden or New Swedeland *

Area 45 126 sq mi 67 counties

Sobriquet Keystone state Capital Harrisburg

.81 Southeast counties Philadelphia and Chester group

811 Philadelphia (co and city)

812 Montgomery

813 Chester

814 Delaware

815 Lancaster

816 Berks

817 Schuylkill

818 Dauphin

819 Lebanon

.82 Eastern counties Bucks group

.821 Bucks

.822 Northampton

823 Wayne

824 Pike

825 Monroe

826 Carbon

.827 Lehigh

83 Northeast counties Northumberland group

831 Northumberland

832 Luzerne

833 *Wilkes Barre*

834 Susquehanna

835 Wyoming

836 Lackawanna

837 *Scranton*

838 Columbia

839 Montour

84 Southeast central counties Cumberland group

841 York

842 Adams

843 Cumberland

844 Franklin

845 Perry

846 Mifflin

847 Juniata

848 Union

.849 Snyder

.85 Northeast central counties East Lycoming group

851 Lycoming

.852

853 Center

854 Clinton

855 Potter

856 Tioga

857 Bradford

858

.859 Sullivan

Pennsylvania

974.86 Northwest central counties West Lycoming group

.861 Clearfield

.862 Jefferson

.863 McKean

.864

.865 Elk

.866 Cameron

.867 Warren

.868 Forest

.869 Clarion

.87 Southwest central counties Bedford group

.871 Bedford

.872 Fulton

.873 Huntingdon

.874

.875 Blair

.876 *Altoona*

.877 Cambria

.878

.879 Somerset

.88 Southwest counties Westmoreland group

.881 Westmoreland

.882 Washington

.883 Greene

.884 Fayette

.885 Allegheny

.886 *Pittsburgh*.887 *Allegheny City*

Annex to Pittsburgh in 1907

.888 Armstrong

.889 Indiana

.89 Northwest counties Allegheny group

.891 Butler

.892 Beaver

.893 Lawrence

.894

.895 Mercer

.896 Venango

.897 Crawford

.898

.899 Erie

.9 New Jersey

Area 8224 sq. mi. 21 counties

Sobriquet: Jersey Blue state Capital: Trenton

.91 East Jersey

.92 Northern counties

.921 Bergen

.922

.923 Passaic

.924 *Paterson*

.925

.926 Hudson

.927 *Jersey City*.928 *Hoboken*

New Jersey

974 93

Central counties

931

Essex

932

Newark

933

Orange

934

935

Union

936

Elizabeth

937

Rahway

938

Southern counties

94

Middlesex

941

New Brunswick

942

943

Somerset

944

945

946

Monmouth

947

948

Ocean

95

West Jersey

96

Central counties

961

Burlington

962

963

964

965

Mercer

966

Trenton

967

Princeton

97

Northern counties

971

Hunterdon

972

Raritan

973

974

Morris

975

976

Sussex

977

978

Warren

98

Upper southern counties

981

Gloucester

982

983

984

Atlantic

985

986

Camden

987

Camden (city)

988

Lower southern counties

99

991

Salem

992

Salem City

993

994

Cumberland

995

Bridgeton

996

997

Cape May

998

975 Southeastern or South Atlantic

Including general works on the South

.1 Delaware

Area 1965 sq. ml.

3 counties

Sobriquets Blue Hen state Diamond state Capital Dover

- 11 Newcastle
 12 *Wilmington*
 14 Kent 15 *Dover*
 17 Sussex

2 Maryland

Area 12,327 sq. ml.

23 counties and Baltimore city

Sobriquet Old Line state Capital Annapolis

.21 Eastern Maryland

- .221 Worcester
 .223 Somerset
 .225 Wicomico
 .227 Dorchester
 .231 Caroline
 .232 Talbot
 .234 Queen Annes
 .236 Kent
 .238 Cecil

24 Southern Maryland

- 241 St Marys
 .244 Calvert
 .247 Charles
 251 Prince Georges
 .255 Anne Arundel
 .256 *Annapolis*
 26 *Baltimore (city)*

27 North central

- .271 Baltimore
 .274 Harford
 .277 Carroll
 .281 Howard
 .284 Montgomery
 .287 Frederick
 .288 *Frederick (city)*

29 Western

- 291 Washington
 .2 2 *Hagerstown*
 .294 Allegany
 .295 *Cumberland*
 297 Garrett

3 District of Columbia, Washington (city)

Area 70 sq. ml.

975.5

Virginia

17 Apr 1861 seceded 26 Jan 1870 readmitted Area 40 162 sq ml.
 100 counties and 20 independent cities
 Sobriquets Old Dominion Mother of Presidents Capital Richmond

- 51 Atlantic coast
- 513 Eastern peninsula counties
- 515 Northampton
- 516 Accomac
- 518 Chesapeake bay
- 52 Potomac counties Northern neck
- 521 Northumberland
- 522 Lancaster
- 523 Richmond
- 524 Westmoreland
- 525 King George
- 526 Stafford
- 527 Prince William
- 5 Fauquier
- 528 Loudoun
- 529 Fairfax
- 5 Arlington
- 6 Alexandria (city)
- 53 Rappahannock-York counties
- 531 Mathews
- 532 Gloucester
- 533 Middlesex
- 534 Essex
- 535 King and Queen
- 5 King William
- 536 Caroline
- 5 Spotsylvania
- 6 Fredericksburg
- 537 Orange
- 5 Greene
- 538 Madison
- 539 Culpeper
- 5 Rappahannock
- 54 York James counties
- 541 Elizabeth City co
- 5 Warwick
- 6 Newport News
- 542 York
- 5 James City co
- 543 New Kent
- 544 Charles City co
- 545 Henrico
- 1 Richmond (city)
- 5 Goochland
- 546 Hanover
- 5 Louisa
- 547 Fluvanna
- 548 Albemarle
- 1 Charlottesville
- 549 Nelson
- 6 Amherst

Virginia

975 55	Southeastern counties
551	Princess Anne
552	Norfolk
1	<i>Norfolk (city)</i>
2	<i>Portsmouth</i>
553	Nansemond
1	<i>Suffolk</i>
554	Isle of Wight
555	Southampton
556	Surry
5	Sussex
557	Greensville
5	Brunswick
558	Danwidd e
1	<i>Petersburg</i>
5	Prince George
6	<i>Hopewell</i>
559	Chesterfield
56	South central counties
561	Powhatan
5	Cumberland
562	Buckingham
5	Appomattox
563	Prince Edward
4	Amelia
7	Nottoway
564	Lunenburg
5	Mecklenburg
565	Charlotte
566	Habifax
5	Pittsylvania
6	Danville
567	Campbell
1	<i>Lynchburg</i>
5	Bedford
568	Franklin
569	Henry
5	Patrick

DECIMAL CLASIFICATION

Virginia

975.57	Southwestern counties	
.571	Floyd	
4	Carroll	
7	Grayson	
.572	Smyth	
5	Washington	
6	<i>Bristol</i>	
.573	Scott	
5	Lee	
.574	Wise	
5	Dickenson	
.575	Buchanan	
5	Russell	
.576	Tazewell	
5	Bland	
.577	Wythe	
5	Pulaski	
.578	Giles	
5	Montgomery	
6	<i>Radford</i>	
.579	Roanoke	
1	<i>Roanoke (city)</i>	
5	Craig	
.58	Central western counties	
.581	Alleghany	
1	<i>Clifton Forge</i>	
.583	Botetourt	
.585	Rockbridge	
1	<i>Buena Vista</i>	
.587	Bath	
.589	Highland	
.59	Northwestern counties	Shenandoah valley
.591	Augusta	
1	<i>Staunton</i>	
.592	Rockingham	
1	<i>Harrisonburg</i>	
.594	Page	
.595	Shenandoah	
.597	Warren	
.598	Clarke	
.599	Frederick	
1	<i>Winchester</i>	

975 6

North Carolina

20 May 1861 seceded, 25 June 1868 readmitted Area 52,426
sq.mi 100 counties Sobriquets Old North Turpentine or
Tar Heel state. Capital Raleigh (975 6351)

61	Coastal plain	Eastern counties		
		Flatwoods district		
611	Northeast coastal plain	North Atlantic coast counties		
612	Albemarle Sound	617	Tyrrell	
613	Currituck	5	Dare	Roanoke Island
5	Camden	618	Pamlico Sound	
614	Pasquotank	2	Hyde	
1	Elizabeth City	6	Beaufort	
4	Perquimans	619	Craven	
7	Chowan	1	New Bern	
615	Gates	4	Pamlico	
5	Hertford	7	Carteret	
616	Bertie			
5	Washington			
62	Southeast coastal plain	South Atlantic coast counties		
	Cape Fear section			
621	Jones	627	New Hanover	
623	Onslow	1	Wilmington	
625	Pender	629	Brunswick	
63	Southwest coastal plain	Sandhill counties		
631	Columbus	637	Cumberland	
632	Bladen	1	Fayetteville	
633	Robeson	5	Sampson	
5	Scotland	638	Duplin	
634	Richmond	5	Lenoir	
635	Moore	6	Kinston	
5	Lee	639	Greene	
636	Harnett	5	Wayne	
5	Hoke	6	Goldsbrough	
64	Northwest coastal plain counties			
641	Johnston	646	Edgecomb	
643	Wilson	9	Rocky Mount	
1	Wilson (city)	647	Nash	
644	Pitt	648	Halifax	
645	Martin	649	Northampton	
65	Piedmont, Plateau or Central counties			
651	Northeast Piedmont counties			
652	Warren	656	Durham	
653	Vance	1	Durham (city)	
5	Granville	5	Orange	
654	Franklin	657	Person	
655	Wake	5	Caswell	
1	Raleigh	658	Alamance	
		659	Chatham	

North Carolina

975 66	Northwest Piedmont counties			
661	Randolph	665	Surry	
662	Guilford	666	Yadkin	
1	<i>High Point</i>	667	Forsyth	
2	<i>Greensboro</i>	1	<i>Winston Salem</i>	
663	Rockingham	668	Davidson	
664	Stokes	669	Davie	
67	South Piedmont counties			
671	Rowan	676	Mecklenburg	
1	<i>Salisbury</i>	1	<i>Charlotte</i>	
672	Cabarrus	677	Gaston	
1	<i>Concord</i>	1	<i>Gastonia</i>	
673	Stanly	5	Cleveland	
674	Montgomery	678	Lincoln	
675	Anson	5	Catawba	
5	Union	679	Iredell	
		5	Alexander	
68	Appalachian, Mountain or Western counties			
	Asheville Plateau Land of the Sky , Blue Ridge, clas general works on Blue Ridge Mts in 975 5 Pisgah national forest			
	Clas general works on Appalachian Mts in 975			
681	Northeast Appalachian counties			
682	Wilkes	6865	Mitchell	
683	Alleghany	687	Yancey	
5	Ashe	1	<i>Mt Mitchell</i>	
684	Watauga	5	Madison	
5	Caldwell	688	Buncombe	
685	Burke	1	<i>Asheville</i>	
686	Avery	689	McDowell	
69	Southwest Appalachian counties			
691	Rutherford	694	Haywood	
5	Polk		Qualla Indian reser	
692	Henderson		vation	
693	Transylvania	695	Jackson	
696	Swain			
	Great Smoky Mt region clas general works on Great Smokies and Great Smoky Mt national park in 976 889			
697	Graham	6985	Clay	
698	Macon	699	Cherokee	
	Nantahala national forest			
7	South Carolina			
	20 Dec. 1860 seceded 25 June 1868 readmitted Area 30 989 sq mi 46 counties Sobriquet Palmetto state Capital Columbia (975 7711)			
71	Piedmont plateau Up country			
72	Mountain or Alpin counties			
721	Oconee	727	Greenville	
	Chattooga ridge	1	<i>Greenville (city)</i>	
723	Pickens	729	Spartanburg	
725	Anderson	1	<i>Spartanburg (city)</i>	
1	<i>Anderson (city)</i>			

South Carolina

975	73	Southwest Piedmont counties	
	731	Laurens	736 McCormick
	733	Greenwood	737 Edgefield
	1	<i>Greenwood (city)</i>	738 Saluda
	735	Abbeville	739 Newberry
	74	Northeast Piedmont counties	
	741	Union	745 Lancaster
	747	Cherokee	747 Chester
	743	York	749 Fairfield
	1	<i>Rock Hill</i>	
	75	Coastal plain	Low country
	76	Sandhills and Upper pine belt counties northeast section	
		To be used as general number for Sandhills and Upper pine belt	
	761	Kershaw	766 Darlington
	1	<i>Camden</i>	767 Lee
	763	Chesterfield	769 Sumter
	764	Marlboro	1 <i>Sumter (city)</i>
	77	Sandhills and Upper pine belt counties southwest section	
	771	Richland	776 Barnwell
	1	<i>Columbia</i>	777 Allendale
	772	Calhoun	778 Bamberg
	773	Lexington	779 Orangeburg
	775	Aiken	
	1	<i>Aiken (city)</i>	
	78	Lower pine belt and Coast counties northeast section	
		Pedee section	
		To be used as general number for Lower pine belt and Coast region	
	781	Clarendon	785 Dillon
	783	Williamsburg	786 Marion
	784	Florence	787 Horry
	1	<i>Florence (city)</i>	789 Georgetown
	79	Lower pine belt and Coast counties southwest section	
	791	Charleston	795 Colleton
	1	<i>Charleston (city)</i>	797 Hampton
	793	Berkeley	798 Jasper
	794	Dorchester	
	799	Beaufort	
	1	<i>Beaufort (city)</i>	
	5	Sea islands	

Clas here or under 917 57995 works on the Sea islands as a whole as wel as on individual islands which ar part of Beaufort county but clas under 975 791 or 917 5791 Charleston county works on islands which ar part of that county

975 8

Georgia

19 Jan. 1861 seceded 25 June 1868 readmitted Area 59 265
sq mi 159 counties Sobriquets Cracker or Buzzard state
Empire state of the South Capital Atlanta (975 8231)

81 North Georgia

811 Northeast counties

812 Rabun

816 Elbert

5 Habersham

5 Lincoln

813 Stephens

817 Wilkes

5 Franklin

5 Oglethorpe

814 Banks

818 Clarke

5 Jackson

1 Athens

815 Madison

819 Oconee

5 Hart

5 Barrow

82 North central counties Appalachian Highland or
Mountain region

Blue Ridge Clas general works on Appalachian Mts in
975 on Blue Ridge in 975 5

921 Walton

8237 Campbell

5 Rockdale

Merged with Fulton,

822 Gwinnett

1932

5 DeKalb

824 Douglas

Stone Mt Con

5

Cobb

federate memorial

825 Cherokee

823 Fulton

5

Pickens

1 Atlanta

826 Dawson

4 Milton

5

Forsyth

Merged with

827

Hall

Fulton 1932

3

Lumpkin

7

White

828 Towns

Cherokee national forest Blue Ridge section Clas
general works on Cherokee national forest in 976 888

5 Union

829

Fannin

8295

Gilmer

83 Northwest counties Valley region

Appalachian Valley Great Valley Clas general works on
Appalachian Valley in 975

831 Murray

835 Floyd

832 Whitfield

1

Rome

6 Catoosa

836

Gordon

833 Walker

5

Bartow

834 Dade

Cald Cass 1832-61

Lookout Plateau

837

Paulding

Lookout Mts

5

Polk

4 Chattooga

838

Haralson

839

Carroll

HISTORY UNITED STATES

Georgia

975 84	Middle Georgia	Central upland	Piedmont region
841	West central counties		
842	Heard	846	Troup
3	Coweta	1	<i>La Grange</i>
6	Fayette	6	Harris
843	Clayton	847	Muscogee
5	Henry	1	<i>Columbus</i>
844	Spalding	6	Chattahoochee
1	<i>Griffin</i>	848	Marion
6	Lamar	3	Talbot
845	Pike	6	Upson
5	Meriwether	849	Taylor
		5	Schley
85	Central counties		
851	Macon	855	Bibb
5	Houston	1	<i>Macon (city)</i>
852	Pulaski	6	Peach
5	Bleckley	856	Crawford
853	Dodge]	3	Monroe
5	Laurens	7	Jones
854	Wilkinson	857	Baldwin
5	Twiggs	6	Putnam
858	Jasper		
	Cald Randolph 1807-12 Present Randolph co., 975 893 was organized in 1828		
5	Butts		
859	Newton		
5	Morgan		
86	East central counties		
861	Greene	865	Burke
6	Talafarro		Formd St George s parish til 1777
862	Hancock		
5	Warren	866	Jefferson
863	McDuffie	6	Glascok
5	Columbia	867	Washington
864	Richmond	6	Johnson
	Formd St Paul s parish til 1777	868	Treutlen
1	<i>Augusta</i>	869	Emanuel
		5	Scrven
87	South Georgia	Coastal plain	
871	Southeast counties		
872	Effingham		
	Formd St Matthew's and part of St Philip s parishes til 1777		
4	Chatham		
	Formd Chnst Church parish till 1777		
5	<i>Savannah</i>		

DECIMAL CLASIFICATION

Georgia

975 873	Bryan		
3	Liberty		
	Formd St John s St Andrew s and St James parishes		
	til 1777		
7	McIntosh		
974	Glynn		
	Formd St Patrick s and St David s parishes till 1777		
1	<i>Brunswick</i>		
6	Camden		
	Formd St Thomas and St Mary s parishes til 1777		
875	Charlton	877	Candler
	Okefenokee	5	Tattnall
	Swamp	878	Toombs
3	Brantley	4	Appling
6	Wayne	7	Bacon
.876	Long	879	Pierce
3	Evans	4	Ware
6	Bulloch	5	Waycross
88	South central counties	Wire	gras section
881	Clinch	885	Ben Hill
4	Echols	5	Irwin
7	Lamer	.886	Berrien
882	Atkinson	4	Lowndes
3	Coffee	5	Valdosta
7	Jeff Davis	.887	Brooks
883	Montgomery	6	Cook
5	Wheeler	888	Tift
.884	Telfair	5	Turner
5	Wilcox	889	Crisp
		5	Dooly
89	Southwest counties		
.891	Sumter	892	Stewart
6	Webster	4	Quitman
	Cald Kuchafoonee	7	Clay
	1853 56		
893	Randolph		
	Jasper co 975 858 cald Randolph 1807-12 Present		
	Randolph co organized 1828		
5	Terrell	8967	Baker
894	Lee	897	Mitchell
5	Worth	5	Colquitt
895	Dougherty	898	Thomas
1	<i>Albany</i>	1	<i>Thomasville</i>
6	Calhoun	6	Grady
.896	Early	899	Decatur
4	Miller	6	Seminole

975 9

Florida

1512 discovered by Ponce de Leon 1565 settled by Spaniards 22 Feb 1819
bought of Spain

30 Mar 1822 organized as territory

3 Mar 1845 admitted as 27th state

10 Jan 1861 seceded 25 June 1868 readmitted Area 54 851 sq mi
66 counties

Sobriquets Everglade Gulf state Cap tal Tallahassee

91 Northeast counties

911 Nassau

912 Duval

I Jacksonville

913 Baker

914 Union

915 Bradford

916 Clay

917 Putnam

918 St Johns

I St Augustine

919 Flagler

92 East central counties

921 Volusia

I New Smyrna

922 Lake

923 Seminole

924 Orange

I Orlando

925 Osceola

927 Brevard

928 Indian River

929 St Lucie

93 Southeast coast

931 Martin

932 Palm Beach

935 Broward

938 Dade

I Miami

94 Southwest coast

941 Monroe

I Key West

944 Collier

946 Hendry

948 Lee

949 Charlotte

DECIMAL CLASIFICATION

Florida

975	95	South central counties
951		Glades
953		Okeechobee
955		Highlands
957		Hardee
959		De Soto
96		West central counties
961		Sarasota
962		Manatee
963		Pinellas
1		<i>St Petersburg</i>
965		Hillsborough
1		<i>Tampa</i>
967		Polk
969		Pasco
97		Northern west central counties
971		Hernando
972		Citrus
973		Sumter
975		Marion
977		Levy
979		Alachua
98		North central counties
981		Dixie
6		Lafayette
982		Suwanee
983		Columbia
984		Hamilton
985		Madison
986		Taylor
987		Jefferson
988		Leon
1		<i>Tallahassee</i>
989		Wakulla
99		Northwestern counties
991		Franklin
992		Liberty
5		Gadsden
993		Jackson
994		Calhoun
7		Gulf
995		Bay
996		Washington
5		Holmes
997		Walton
998		Okaloosa
5		Santa Rosa
999		Escambia
1		<i>Pensacola</i>

976 South Central or Gulf

.1 Alabama

1702 settled by French 14 Dec 1819 admitted as 22d state
 11 Jan 1861 seceded 25 June 1868 readmitted Area 51 998
 sq mi 67 counties Sobriquets Land of Flowers; Cotton
 Lizard or Yallerhammers state Capital Montgomery (976 1471)

11 Southern Alabama Coastal plain division

12 Gulf coast counties Southwestern pine hils Low-
er coastal plain

121 Baldwin

Coast strip, Mobile delta Estuarin swamps

1 Mobile Bay

122 Mobile

1 Mobile (city)

123 Lame hils Piney woods

124 Washington 126 Conecuh

5 Clarke 5 Escambia

125 Monroe 127 Covington

Cald Jones co dur
 ing 1868

128 Lame sink or Wire-gras region

129 Geneva 1295 Houston

13 Southern red hils Wiregras section Including
works on southeast counties

131 Henry 136 Crenshaw

132 Barbour 137 Butler

133 Dale 138 Wilcox

134 Coffee 139 Marengo

135 Pike 5 Choctaw

14 Black belt, Canebrake or Prairie counties

Chunnennuggee Ridge or Blue marl region, central
 Alabama

141 Sumter 1465 Lowndes

142 Greene 147 Montgomery

143 Hale 1 Montgomery (city)

144 Perry 148 Bullock

145 Dallas 5 Russell

146 Autauga 149 Macon

15 Northern Alabama Hil country Mineral or Moun-
tain and valley division

151 Piedmont region East central counties

152 Elmore 157 Randolph

153 Tallapoosa 158 Clay

155 Lee 159 Coosa

.156 Chambers

DECIMAL CLASIFICATION

Alabama

976 16

Appalachian or Coosa Valley region

Blue Ridge Raccoon Mts Limestone valleys Clas
general works on Appalachian Valley in 975 on Blue
Ridge in 975 5

- | | | | | |
|-----|--|-----|----------|--------------|
| 16 | Talladega | 164 | Cleburne | |
| 163 | Calhoun | 165 | Cherokee | |
| | Cald Benton | 166 | DeKalb | Wills Valley |
| | 1832 58 | | | |
| 167 | Etowah | | | |
| | Established as Barne co in 1866 abolisht in 1867
reestablished as Etowah co in 1868 | | | |

169 St Clair

Coal region or Mineral district

- | | | | | |
|-----|-----------------|-----|---------------|--|
| 17 | | | | |
| 171 | Plateau section | 175 | Basin section | |
| | Sand mountains | 176 | Walker | |
| 172 | Blount | 178 | Jefferson | |
| | Murphree's | | Jones Valley | |
| | Valley | 1 | Birmingham | |
| 173 | Cullman | 179 | Shelby | |
| 174 | Winston | | | |

18 Central pine belt West central counties

Upper costal plain

- | | | | | |
|-----|-------------|-----|---------|--|
| 181 | Chilton | 185 | Pickens | |
| | Cald Baker | 186 | Lamar | |
| | 1868-71 | 187 | Fayette | |
| 182 | Bibb | 189 | Marion | |
| | Cald Cahaba | | | |
| | 1818-20 | | | |

184 Tuscaloosa

Tennessee Valley counties

Clas general works on Tennessee River in 976 8

- | | | | | |
|-----|---|-----|---------------|----------------|
| 19 | Franklin | 193 | Morgan | |
| 5 | Colbert | 194 | Marshall | |
| 197 | Lawrence | 195 | Jackson | Brown's Valley |
| 76 | Highland Rim | | The Barrens | |
| | Clas general works on Highland Rim in 976 841 | | | |
| 97 | Madison | 199 | Lauderdale | |
| 178 | Limestone | 1 | Muscle Shoals | |

Mississippi

7 Ap 1798 organized as territory, 10 Dec. 1817 admitted as 20th state. 9 Jan. 1861 seceded, 17 Feb 1870 readmitted
Area 46 865 sq mi. 82 counties Sobriquets, Bayou Eagle or Magnolia state Capital Jackson (976,2511)

21 Mobile district (West Florida) Southeast counties

Clas general works on West Florida in 975 99

211 Gulf counties

Coastal pine meadows Mississippi Sound

212 Jackson .214 Hancock

213 Harrison

1 Biloxi Gulfport

215 Pearl River 2175 Perry

216 Stone 218 Forrest

5 George 1 Hattiesburg

217 Greene 219 Lamar

22 Natchez district (West Florida) Southwest counties

Bluf hils Clas general works on West Florida in 975 99

221 Marion 227 Franklin

222 Walthall 228 Jefferson

223 Pike Cald Pickering

224 Amite 1799-1802

225 Wilkison 5 Claiborne

226 Adams 229 Warren

1 Natches 1 Vicksburg

23 Choctaw cessions

24 Delta counties

Yazoo-Mississippi delta or flood plain Clas general works on Mississippi valley in 977

241 Issaquena 245 Quitman

4 Sharkey 5 Tallahatchie

242 Washington 246 Leflore

1 Greenville 247 Sunflower

243 Bolivar 248 Humphreys

244 Coahoma 249 Yazoo

25 Long leaf pine region

251 Hinds 255 Lones 1 Laurel

1 Jackson 256 Jackson Prairie belt

252 Copiah 257 Wayne

253 Lincoln 5 Jasper

6 Lawrence 258 Smith

254 Jefferson Davis 5 Simpson

5 Covington 259 Rankin

DECIMAL CLASSIFICATION

Louisiana

976 37

East central parishes

Ouachita or Washita River, use as general number See also
976 76 Upper Ouachita (Washita) River

.371 Avoyelles .376 Caldwell
.373 Concordia .377 Franklin
.374 Catahoula .379 Tensas
.375 LaSalle Catahoula Lake

.38 Northeast parishes

Use as general number for northern Louisiana

.381 Madison
Singer wild life refuge
.382 East Carroll .387 Ouachita
.383 West " I Monroe
.384 Morehouse 389 Union
.386 Richland

39 Northwest parishes

.391 Lincoln .396 Webster
.392 Jackson .397 Bossier
.393 Bienville .399 Caddo Lake
.394 Claiborne I Shreveport

.4 Texas

20 Dec. 1835 independence from Mexico declared, 2^d Mar 1836 republic formed
29 Dec 1845 annexed as 28th state
1 Feb 1861 seceded, 30 Mar 1870 readmitted Area 262 398 sq mi
253 counties
Sobriquet Lone Star state Capital Austin

.5

.6 Indian Territory Oklahoma

30 June 1834 assigned to Indians (part of Louisiana purchase)
16 Nov 1907 Oklahoma admitted as 46th state Area 70 057
sq mi 77 counties Sobriquet Sooner state Capital Okla-
homa City (976 6381)

61 Western Oklahoma

Oklahoma territory 2 May 1890-16 Nov 1907 Area 38,811
sq mi Canadian River; class here general works on Canadian
River including North and South Canadian, see also 976 67
Lower Canadian River

611 Northwest counties

High plains region

612 Panhandle

No Man's Land, Neutral strip, Public land strip Cimarron terri-
tory 1887-90

613 Cimarron 6135 Texas .614 Beaver

615 Harper

5 Ellis

Former Day co, abolished 1907, included present Ellis
co and north part of Roger Mills

616 Roger Mills .618 Dewey

Antelope Hills .619 Woodward

617 Custer

Gypsum Hills region

Oklahoma

976 62

North central counties

Cherokee outlet Cherokee strip Salt Fork Arkansas River

Clas general works on Arkansas River in 976 73

621	Woods	626	Pawnee
622	Alfalfa	627	Noble
623	Grant	628	Garfield
624	Kay	1	End
625	Osage	629	Major Glass Mts

63 Central counties

Redbeds plains region Cumarron River

631	Blaine	635	Lincoln
	Stony Hills	636	Pottawatomie
632	Kingfisher	1	Shawnee
633	Logan	637	Cleveland
1	Guthrie	638	Oklahoma
	State capital	1	Oklahoma City
	1907 10	639	Canadian

634 Payne

64 Southwest counties

Upper Red River clas general works on Red River in 976 66

641	Caddo	Keeche Hills	645	Harmon
642	Washita		645	Jackson
643	Beckham		646	Tillman
644	Greer		647	Kiowa Rainy Mt Range
648	Comanche			

Wichita Mts, Mt Scott Wichita national forest and game preserve Ft Sill military reservation

649 Cotton

65 Eastern Oklahoma

Indian territory 1890-1907 Area 31 246 sq mi.

651 South central counties

Washita river

652	Jefferson	657	Murray
653	Stephens		Arbuckle Mts Platt
654	Grady		national park
1	Chickasha	658	Carter
655	McClain	1	Ardmore
656	Garvin	659	Love

66 Southeast counties

Red River or Coastal plains region Clas here general works on Red River see also 976 64 Upper Red River, 976 36 Lower Red River

661	Marshall	666	Atoka
662	Bryan	667	Coal
663	Choctaw	668	Johnston
664	McCurain	669	Pontotoc
665	Pushmataha		Jack Fork Mts

DECIMAL CLASIFICATION

Oklahoma

976 67

Southern east central counties

Sandstone hills region, Lower Canadian River Clas gen
eral works on Canadian River in 976 61

671	Seminole	676	Latimer
672	Hughes	677	Haskell
673	Okfuskee		San Bois Mts
674	McIntosh	679	LeFlore
675	Pittsburg		Kiamichi, Poteau and
I	McAlester		Winding Stair Mts

68

Northern east central counties

Arkansas River region. Clas general works on Arkansas
River in 976 73

681	Sequoyah	684	Creek
	Brushy and Wild	I	Sapulpa
	horse Mts	686	Tulsa
682	Muskogee	I	Tulsa (city)
I	Muskogee (city)	687	Wagner
683	Okmulgee	688	Cherokee
I	Okmulgee (city)	689	Adair

69

Northeast counties

Prairie plains region

Prairie plains Region			
691	Delaware	Wet Prairie	
693	Mayes	697	Nowata
694	Rogers	698	Craig
696	Washington	699	Ottawa
I	Barlesville		

.7

Arkansas

4 June 1812 included in Missouri territory (977 8) 2 Mar 1819
organized as Arkansas territory 15 June 1836 admitted as 25th
state 6 May 1861 seceded, 22 June 1868 readmitted Area
53 335 sq.mi. 75 counties. Sobriquets Bear, Bowie or Wonder
state Capital Little Rock (976.7731)

71

Highland area

711

Ozark plateau region

Clas general works on Ozark Mts in 977 87

.712

Northwest counties Springfield Plateau

Ozark national forest

713

Benton

714

Washington

Loveley co, organized 1827 abolisht 1828 included
present Washington co.

715

Madison

717

Carroll

.716

Newton

718

Boone

Boston Mts,

719

Manion

Diamond Cave

5

Searcy

Arkansas

976 72	North central counties		Salem plateau	
	Black River	White River		
721	Baxter		726	Independence
722	Fulton		727	Izard
	Mammoth Spring		728	Stone
723	Sharp		5	Cleburne
724	Randolph		729	Van Buren
725	Lawrence			
73	Arkansas valley region		Northern west central counties	
	Clas here general works on Arkansas River See also			
	976 68 Arkansas River in Okla		978 14 in Kan. 978 89 in Colo	
731	Conway	Petit Jean state park		
732	Pope		735	Crawford
733	Johnson		736	Sebastian
734	Franklin		1	<i>Pt Smith</i>
737	Logan	Cald Sarber 1871 5		Mt Magazine
738	Yell	Mt Nebo	739	Perry
74	Ouachita Mt region		Southern west central counties	
	Ouachita or Arkansas national forest			
741	Garland			
I	<i>Hot Springs</i> (city)		Hot Springs national park	
742	Hot Spring		746	Athens Plateau
743	Montgomery		747	Sevier
744	Scott		748	Howard
745	Polk		5	Pike
			749	Clark
75	Gulf coastal plain area			
751	Southwest counties			
752	Nevada		756	Miller
754	Hempstead		757	Lafayette
755	Little River		759	Columbia
76	South central counties			
	Upper Ouachita or Washita River Clas general works on			
	Ouachita River in 976 37			
761	Union		766	Ouachita
763	Bradley		767	Dallas
764	Calhoun		769	Cleveland
				Cald Dorsey 1873-5

DECIMAL CLASSIFICATION

Arkansas

976 77	Central counties		
771	Grant	.772	Saline
773	Pulaski		
1	Little Rock	19018	Little Rock
774	Faulkner	.778	Lonoke
776	White Little Rod River	.779	Jefferson
777	Prairie	1	Pine Bluff
78	Mississippi alluvial plain		
	Clas general works on Mississippi valley in 977		
781	Southeast counties		
782	Lincoln	785	Desha
5	Drew	.786	Arkansas
783	Ashley	.787	Monroe
784	Chicot	.788	Phillips
	Lake Chicot	.789	Lee
79	Northeast counties		
	Crowley's Ridge, St Francis River		
791	St Francis	.796	Poinsett St Francis Lake
792	Woodruff	.797	Jackson
793	Cross	.798	Craighead Sunk lands
794	Crittenden	.799	Greene
795	Mississippi	5	Clay Cald Clayton
	Big Lake		1873-5

.8 Tennessee

1769 settled from Virginia, 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland) 1 June 1796 admitted as 16th state. 8 June 1861 seceded, 24 July 1866 readmitted Area 42 022 sq mi 95 counties. Sobriquets: Big Bend, Volunteer or Hog and Hominy state Capital Nashville (976.8551) Tennessee River, clas here general works on Tennessee River, see also 976.83 Western Tennessee River valley, 976 88 Eastern Tennessee River valley, 976 19 Tennessee River valley in Ala., 976 99 Lower Tennessee River

81 West Tennessee

811 Mississippi valley counties

	Clas general works on Mississippi valley in 977		
812	Lake	.816	Lauderdale
	Reelfoot Lake	.817	Tipton
813	Obion	.819	Shelby
815	Dyer	1	Memphis
82	West Tennessee plain		
821	Fayette	826	Henderson
822	Haywood	5	Chester Wisdom
	Crockett		1875-9
5	Gibson	.827	Madison
823	Weakley	1	Jackson
824	Carroll	828	Hardeman
825		.829	McNary

Tennessee

76 83

Western Tennessee River valley

Clas general works on Tennessee River in 976 8

831	Hardin	834	Henry	837	Humphrey
832	Decatur	835	Stewart	838	Perry
833	Benton	836	Houston	839	Wayne

84 Middle Tennessee

Miro district

841 Highland Rim or plain

Use as general number See also 976 86 East Highland
Rim 976 196 Highland Rim in Ala. 976 96 Highland Rim
in Ky

842	Lawrence	8434	Hickman	Duck River
-----	----------	------	---------	------------

843	Lewis	844	Dickson	
-----	-------	-----	---------	--

845 Montgomery

Former Tennessee co establishd 1788 abolishd 1796,
included present Montgomery and Robertson cos

846	Cheatham	848	Trousdale	
-----	----------	-----	-----------	--

4	Robertson	4	Macon	
---	-----------	---	-------	--

847	Sumner	849	Clay	
-----	--------	-----	------	--

85 Central basin

Cumberland River clas here general works on Cumberland
River see also 976 961 Upper Cumberland River 976 9895
Lower Cumberland River

851	Jackson	856	Williamson	
-----	---------	-----	------------	--

852	Smith	857	Rutherford	
-----	-------	-----	------------	--

853	DeKalb	858	Bedford	
-----	--------	-----	---------	--

5	Carmon	5	Marshall	
---	--------	---	----------	--

854	Wilson	859	Maury	
-----	--------	-----	-------	--

855	Davidson			
-----	----------	--	--	--

1 Nashville

86 East Highland Rim

Clas general works on Highland Rim in 976 841

861	Giles	864	Coffee	867	Putnam
-----	-------	-----	--------	-----	--------

862	Lincoln	865	Warren	868	Overton
-----	---------	-----	--------	-----	---------

7	Moore	7	Van Buren	7	Pickett
---	-------	---	-----------	---	---------

863	Franklin	866	White	869	Fentress
-----	----------	-----	-------	-----	----------

87 Cumberland Plateau

South Appalachian plateau Clas here general works on
Cumberland Plateau see also 976 91 Cumberland Plateau
in Ky

871	Scott	876	Bledsoe	
-----	-------	-----	---------	--

872	Campbell	877	Sequatchie	
-----	----------	-----	------------	--

873	Anderson		Sequatchie Valley	
-----	----------	--	-------------------	--

Climch River

Waldens Ridge

874	Morgan	878	Grundy	
-----	--------	-----	--------	--

875	Cumberland	879	Marion	
-----	------------	-----	--------	--

DECIMAL CLASIFICATION

Tennessee

976 88

East Tennessee

Washington and Hamilton district. Eastern Tennessee River valley and Appalachian Mt region, Great Appalachian valley
 Clas general works on Tennessee River in 976.8, on Appalachian Mts and valley in 975

881

Southeast counties

882

Hamilton

James co., 1871-1919, formed part of present Hamilton co. Chickamauga and Chattanooga national park, Lookout Mt, Missionary Ridge. For Lookout Plateau and Mts see 975.834

8821

Chattanooga

883

Rhea

886

Loudon

6

Mingo

5

McMinn

884

Roane

.887

Bradley

885

Knox

5

Polk

1

Knoxville

Frog Mts

888

Monroe

Unaka Mts, Cherokee national forest Unaka Mt section. Clas here general works on Cherokee national forest, see also 975 828 Blue Ridge section

5

Blount

889

Sevier

Great Smoky Mts, Great Smoky Mt national park. See also 975 696 Great Smokes of N Car

5

Cocke

French Broad River, Mt Guyot

89

Northeast counties

Holston River

891

Greene

Bald Mts

.893

Grainger

892

Hamblen

Clinch mts

4

Jefferson

5

Union

894

Claiborne

Cumberland Mts, Cumberland Gap Clas general works on Cumberland Mts in 976 9154

6

Hancock

897

Washington

895

Hawkins

1

Johnson City

Holston Mts

898

Unicoi

896

Sullivan

4

Carter

Iron Mts

899

Johnson

Roxa Mts, Stone Mts, Unaka national forest

9769 Kentucky

1775 settled by Daniel Boone Transylvania colony established
29 May 1790 territory organized. 1 June 1792 admitted as 15th
state Area 40 598 sq mi 120 counties Sobriquets Blue
Grass or Corn Cracker state Dark and Bloody Ground Capital
Frankfort (976 9431)

Ohio River class general works on Ohio valley in 977

91 Kentucky mountains Cumberland Plateau East
ern coal field Eastern Kentucky

Class general works on Cumberland Plateau in 976 87

911 Southern mountain region Southeast counties

912 Bell

Originally called Josh Bell co Pine Mts Cumberland
state park

5 Knox 914 Laurel

913 Whitley 5 Clay Kentucky Ridge

5 McCreary 915 Leslie

9154 Harlan

Cumberland Big Black Little Black and Log Mts
Class here general works on Cumberland Mts see also
976 894 Cumberland Mts in Tenn

916 Letcher 918 Jackson

5 Knott 5 Lee

917 Perry 919 Breathitt

6 Owsley

92 Northern mountain region Northeast counties

Big Sandy Tug and Lanes valleys See also 975 446
Tug Valley W Va

921 Wolfe 9255 Elliott

5 Magoffin 926 Lawrence

922 Floyd 927 Boyd

923 Pike 1 Ashland

924 Martin 928 Carter

5 Johnson 929 Greenup

925 Morgan 5 Lewis

DECIMAL CLASSIFICATION

Kentucky

976 93	Bluegrass region	Northern Kentucky
	Kentucky River	
932	Outer or Northern Bluegrass	
	Licking River	
932	Mason	936 Boone
5	Bracken	5 Gallatin
933	Pendleton	937 Carroll
934	Campbell	5 Trimble
1	Newport	938 Oldham
935	Kenton	5 Henry
1	Covington	939 Owen
		5 Grant
94	Inner or Southern Bluegrass	Central Kentucky
941	Harrison	942 Bourbon
5	Robertson	5 Scott
7	Nicholas	
	Blue Licks Battlefield state park	
943	Franklin	944 Jefferson
1	Frankfort	
5	Shelby	1 Beargrass region
945	Bullitt	Louisville *
	Salt River, Old Kentucky Home state park	
945	Spencer	947 Fayette
946	Anderson	1 Lexington
5	Woodford	948 Jessamine
95	The Knobs region	949 Nelson
951	Martin	956 Fleming
952	Boyle	957 Rowan
5	Garrard	958 Menifee
953	Madison	5 Powell
954	Clark	
955	Montgomery	Natural Bridge state park
5	Bath	949 Estill
96	Pennyroyal region	Mississippian plateau
	Kentucky	Southern
	The Barrens, Highland Rim Cavernous limestone area. Class general works on Highland Rim in 976 841	
961	East Pennyroyal	
	Upper Cumberland River	Class general works on
	Cumberland River in 976 85, see also 976 9895	Lower
	Cumberland River	
962	Rockcastle	967 Taylor
5	Lincoln	5 Adair
963	Pulaski	968 Cumberland
964	Wayne	5 Monroe
965	Clinton	969 Mitchell
5	Russell	5 Green
966	Casey	Green River knobs

Kentucky

976 97	West Pennyroyal		
971	Larue		
	Muldraughs H l	Lincoln s b rthplace national monu	
	ment		
5	Hart	Horse Cave	9755
977	Barren		976
973	Allen		977
5	Simpson		
974	Warren		
1	<i>Bowling Green</i>	978	Christian
975	Edmonson	1	<i>Hopkinsville</i>
4	Mammoth Cave	979	Trigg
98	Western coal field or basin		
	Use as general number for western Kentucky		Green River
981	Lyon	985	Meade
5	Caldwell	4	Breckinridge
98	Hopkins	986	Hancock
6	McLean	4	Davies
983	Mullinberg	5	<i>Owensboro</i>
5	Ohio	987	Henderson
984	Grayson	1	<i>Henderson (city)</i>
5	Hardin	988	Webster
	Knott national forest	5	Union
		989	Crittenden
9895	Livingston		
	Lower Cumberland River	Class general works on	
	Cumberland River in	976.85	see also 976 96 Upper
	Cumberland River		
99	Jackson purchase	Gulf or Mississippi embayment	
	Mississippi valley counties	class general works on Mississipp	
	valley in 977	Lower Tennessee River	class general works on
	Tennessee River in 976 8		
991	Marshall	996	Ballard
992	Calloway	997	Carlisle
993	Graves	998	Hickman
995	McCracken	999	Fulton
1	<i>Paducah</i>		

DECIMAL CLASSIFICATION

977 North Central or Lake

.1 Ohio

19 Feb 1803 admitted as 17th state Area 40,760 sq. ml.

83 counties

sobriquet. Buckeye state Capital Columbus

.11 Northwest counties

.111 Williams

5 Fulton

.112 Lucas

.113 *Toledo*

.114 Defiance

.115 Henry

.116 Wood

.117 Paulding

.118 Putnam

.119 Hancock

1 *Findlay*

.12 Central north counties

.121 Ottawa

4 Sandusky

.122 Erie

1 *Sandusky (city)*

.123 Lorain

1 *Lorain (city)*

.124 Seneca

1 *Tiffin*

.125 Huron

.126 Wyandot

.127 Crawford

.128 Richland

1 *Mansfield*

.129 Ashland

.13 Northeast counties

.131 Cuyahoga

.132 *Cleveland*

.133 Lake

6 Geauga

.134 Ashtabula

1 *Ashtabula (city)*

.135 Medina

.136 Summit

1 *Akron*

.137 Portage

.138 Trumbull

.139 Mahoning

1 *Youngstown*

Ohio

977.14 Central west counties

- .141 Van Wert
- 5 Mercer
- .142 Allen
- 1 *Lima*
- .143 Auglaize
- .144 Hardin
- .145 Shelby
- .146 Logan
- 5 Champaign
- .147 Darke
- .148 Miami
- 1 *Piqua*
- .149 Clark
- 1 *Springfield*

.15 Central counties

- .151 Marion
- 1 *Marion (city)*
- 6 Morrow
- .152 Knox
- .153 Union
- 5 Delaware
- .154 Licking
- 1 *Newark*
- .155 Madison
- .156 Franklin
- .157 *Columbus*
- .158 Fairfield
- .159 Perry

.16 Central east counties

- .161 Wayne
- .162 Stark
- 1 *Canton*
- 3 *Massillon*
- .163 Columbiana
- 1 *East Liverpool*
- .164 Holmes
- .165 Coshocton
- .166 Tuscarawas
- .167 Carroll
- .168 Harrison
- .169 Jefferson
- 1 *Steubenville*

DECIMAL CLASIFICATION

Ohio

777 17 Southwest counties

- 171 Preble
- 172 Montgomery
- 173 Dayton
- 174 Greene
- 175 Butler
- 1 Hamilton (city)
- 176 Warren
- 5 Clinton
- 177 Hamilton
- 178 Cincinnati
- 179 Clermont
- 6 Brown

18 Central south counties

- 181 Fayette
- 5 Pickaway
- 182 Ross
- 1 Chullicothe
- 183 Hocking
- 7 Vinton
- 184 Highland
- 7 Pike
- 185 Jackson
- 186 Adams
- 187 Scioto
- 1 Portsmouth
- 188 Lawrence
- 1 Ironton
- 189 Gallia

19 Southeast counties

- 191 Muskingum
- 1 Zanesville
- 192 Guernsey
- 193 Belmont
- 194 Morgan
- 195 Noble
- 196 Monroe
- 197 Athens
- 198 Washington
- 1 Marietta
- 199 Mcigs

977 2 Indiana

1809 Indiana territory with present boundaries established

11 Dec 1816 Indiana admitted as 19th state

92 counties Area 36 350 sq m

Sobquet Hoosier state Capital Indianapolis

21 Southeast counties

.211 Dearborn

.212 Ohio

5 Switzerland

.213 Jefferson

.214 Ripley

.215 Franklin

.216 Decatur

.217 Jennings

.218 Scott

5 Clark

6 Jeffersonville

.219 Floyd

New Albany

22 Central & north counties

.221 Harrison

.222 Washington

.223 Jackson

.224 Bartholomew

.225 Brown

5 Monroe

.226 Lawrence

.227 Orange

.228 Crawford

.229 Perry

23 Southwest counties

.231 Spencer

.232 Warrick

.233 Vanderburg

Ellettsville

.234 Posey

.235 Gibson

.236 Pike

.237 Dubois

.238 Martin

5 Davis

.239 Knox

24 West central counties

.241 Sullivan

.242 Green

.243 Owen

.244 Clay

.245 Vigo

Terre Haute

.246 Vermilion

5 Parke

.247 Fountain

.248 Montgomery

.249 Putnam

DECIMAL CLASIFICATION

Indiana

977 25 Central counties

251 Morgan

5 Johnson

.252 Marion

Indianapolis

.253 Hendricks

254 Boone

255 Clinton

5 Tipton

.256 Hamilton

257 Madison

Anderson

258 Hancock

259 Shelby

26 East central counties

261 Rush

262 Fayette

5 Union

.263 Wayne

Richmond

.264 Henry

265 Delaware

Muncie

266 Randolph

.267 Jay

.268 Blackford

269 Grant

27 Northeast counties

271 Huntington

.272 Wells

273 Adams

.274 Allen

Fort Wayne

.275 Whitley

276 Noble

277 Dekalb

.278 Steuben

.279 Lagrange

28 Central north counties

281 Elkhart

.282 Kosciusko

.283 Wabash

284 Miami

.285 Howard

.286 Cass

Logansport

.287 Fulton

.288 Marshall

.289 St Joseph

South Bend

Indiana

977 29 Northwest counties

291 Laporte
Michigan City

292 Starke

5 Pulaski

293 White

294 Carroll

295 Tippecanoe

Lafayette

296 Warren

297 Benton

4 Newton

7 Jasper

298 Porter

299 Lake

3 Illinois

1809 Illinois territory formed 3 Dec. 1818 Illinois admitted as 21st state

Area 56 043 sq. mi. 102 counties

Sobriquet Prairie state Capital Springfield

31 Cook

311 *Chicago*

32 Northeast counties

321 Lake

322 McHenry

323 Kane

Aurora

Elgin

324 DuPage

325 Will

Joliet

326 Kendall

5 Grundy

327 LaSalle

Streator

328 DeKalb

329 Boone

33 Northwest counties

331 Winnebago

Rockford

332 Ogle

333 Stephenson

Freeport

334 Jo Daviess

5 Carroll

335 Whiteside

336 Lee

337 Bureau

5 Putnam

338 Henry

339 Rock Island

Rock Island (city)

Moline

5 Mercer

DECIMAL CLASIFICATION

Illinois

977 34 West central counties

341 Henderson

5 Warren

342 McDonough

343 Hancock

344 Adams

Quincy

345 Pike

5 Scott

346 Morgan

Jacksonville

5 Cass

347 Brown

5 Schuyler

348 Fulton

349 Knox

35 Central counties

351 Stark

5 Marshall

352 Peoria

Peoria (city)

353 Woodford

354 Tazewell

355 Mason

5 Menard

356 Sangamon

Springfield

357 Logan

358 Macon

Decatur

5 Dewitt

359 McLean

Bloomington

36 East central counties

361 Livingston

362 Ford

363 Kankakee

364 Iroquois

365 Vermilion

Danville

366 Champ ugn

367 Pratt

5 Moultrie

368 Douglas

369 Edgar

Illinois

- 977 37 Southeast counties
- 371 Clark
- 372 Coles
- 373 Cumberland
- 374 Jasper
- 375 Crawford
- 376 Lawrence
- 377 Richland
- 378 Wabash
- 379 1 Edward.
- 2 Wayne
- 3 Jefferson
- 4 Marion
- 5 Clay
- 6 Effingham
- 7 Fayette
- 8 Shelby
- 38 Southwest counties
- 381 Christian
- 382 Montgomery
- 383 Macoupin
- 384 Greene
- 385 Calhoun
- 5 Jersey
- 386 Madison
- Alton*
- 387 Bond
- 5 Clinton
- 388 Washington
- 389 St Clair
- Belleville*
- East St Louis*
- 39 Southern counties
- 391 Monroe
- 392 Randolph
- 393 Perry
- 394 Franklin
- 395 Hamilton
- 396 White
- 397 Gallatin
- 398 Hardin
- 399 1 Pope
- 2 Saline
- 3 Williamson
- 4 Jackson
- 5 Union
- 6 Johnson
- 7 Massac
- 8 Pulaski
- 9 Alexander
- Cairo*

DECIMAL CLASSIFICATION

977-4 Michigan

1805 Organized as separate territory)
1837 Admitted
Area 78 915 sq mi

Sobriquets Wolverine Lake state 83 counties
Capital Lansing

Lower peninsula

41 Southwest counties

-411 Berrien

-412 Cass

-413 Van Buren

-414 Allegan

-415 Ottawa

-416 Barry

-417 Kalamazoo

-418 Kalamazoo (city)

-419 St Joseph

-42 Central south counties

-421 Branch

-422 Calhoun

Battle Creek

-423 Eaton

-424 Clinton

-425 Shiawassee

-426 Ingham

-427 Lansing

-428 Jackson

Jackson (city)

-429 Hillsdale

-43 Southeast counties

-431 Lenawee

-432 Monroe

-433 Wayne

-434 Detroit

-435 Washtenaw

-436 Livingston

-437 Genesee

-438 Oakland

-439 Macomb

44 Southeast central counties

-441 St Clair

Port Huron

-442 Lapeer

-443 Sanilac

-444 Huron

-445 Tuscola

-446 Saginaw

Saginaw (city)

-447 Bay

Bay City

West Bay City

Annex to Bay City in April 1905

-448 Midland

-449 Gratiot

Michigan

977 45 Southwest central counties

- 451 Isabella
- 452 Mecosta
- 453 Montcalm
- 454 Ionia
- 455 Kent
- 456 *Grand Rapids*
- 457 Muskegon
- Muskegon (city)*

458 Newaygo

459 Oceana

46 Northwest central counties

461 Mason

462 Manistee

Manistee (city)

463 Benzie

5 Leelanau

464 Grand Traverse

465 Kalkaska

466 Missaukee

467 Wexford

468 Lake

469 Osceola

47 Northeast central counties

471 Clare

472 Gladwin

473 Arenac

474 Iosco

475 Ogemaw

476 Roscommon

477 Crawford

478 Oscoda

479 Alcona

48 Northern counties

481 Alpena

482 Presque Isle

483 Montmorency

484 Otsego

485 Antrim

486 Charlevoix

487 Cheboygan

488 Emmet

489 Manitou

Annex to Charlevoix and Leelanau in 1890

DECIMAL CLASIFICATION

Michigan

977 49 Upper peninsula

491 Chippewa

492 Mackinac

5 Luce

493 Alger

5 Schoolcraft

-494 Delta

-495 Menominee

Menominee (city)

5 Dickinson

496 Marquette

Ishpeming

497 Baraga

5 Iron

-498 Gogebic

5 Ontonagon

-499 Houghton

5 Keweenaw

7 Isle Royale

Annexed to Keweenaw in 1897

5 Wisconsin

1836 organized as territory

29 May 1848 admitted as 30th state

Area 56 040 sq mi

71 counties

Sobriquet Badger state

Capital Madison

51 Northwest counties

511 Douglas

512 Supervisor

513 Bayfield

514 Burnett

515 Washburn

516 Sawyer

517 Polk

518 Barron

519 Rusk (formerly Gates)

Name changed from Gates to Rusk in 1905. Gates organized from Chippewa in 1901

52 Central north counties

521 Ashland

Ashland (city)

522 Iron

523 Vilas

524 Price

525 Oneida

526 Taylor

527 Lincoln

528 Clark

529 Marathon

Wausau

HISTORY. UNITED STATES

Wisconsin

977 53 Northeast counties

- 531 Forest
- 532 Florence
- 533 Marinette
- 534 *Marquette (city)*
- 535 Langlade
- 536 Shawano
- 537 Oconto
- 538 Waupaca
- 539 Outagamie
- Appleton*

54 Central west counties

- 541 St Croix
- 542 Pierce
- 543 Dunn
- 544 Chippewa
- 545 Eau Claire
- 546 *Eau Claire (city)*
- 547 Pepin
- 548 Buffalo
- 549 Trempealeau

55 Central counties

- 551 Jackson
- 552 Wood
- 553 Portage
- 554 Monroe
- 555 Juneau
- 556 Adams
- 557 Waushara
- 558 Marquette
- 559 Green Lake

56 Central east counties

- 561 Brown
- Green Bay (city)*
- 562 Kewaunee
- 563 Door
- 564 Winnebago
- Oshkosh*
- 565 Calumet
- 566 Manitowoc
- 567 *Manitowoc (city)*
- 568 Fond du Lac
- Fond du Lac (city)*
- 569 Sheboygan
- Sheboygan (city)*

DECIMAL CLASSIFICATION

Wisconsin

- 977 57 Southwest counties
- 571 La Crosse
- 572 La Crosse (city)
- 573 Vernon
- 574 Crawford
- 575 Richland
- 576 Sauk
- 577 Grant
- 578 Iowa
- 579 Lafayette
- 58 Central south counties
- 581 Columbia
- 582 Dodge
- 583 Dane
- 584 Madison
- 585 Jefferson
- 586 Green
- 587 Rock
- 588 Janesville
- 589 Beloit
- 59 Walworth
- 59 Southeast counties
- 591 Washington
- 592 Ozaukee
- 593 Waukesha
- 594 Milwaukee
- 595 Milwaukee (city)
- 596 Racine
- 597 Racine (city)
- 598 Kenosha
- 599 Kenosha (city)

977 6

Minnesota

3 Mar 1849 organized as territory from Northwest territory (977) and Louisiana purchase (978 see also 976 3 Louisiana) 11 May 1858, east part admitted as 32d state, west part merged in Dakota territory (978 3) 1861 Area 80 858 sq mi 87 counties Sobriquet Gopher state Capital St Paul (977 6581)

61 Southeast counties

611	Houston	616	Filmore
612	Winona	617	Mower
613	Wabasha	618	Freeborn
614	Goodhue	619	Steele
615	Dodge	5	Waseca

5

Olmsted

62 Southwest counties

621	Blue Earth	625	Rock
622	Panbault	626	Pipestone
623	Martin	627	Murray
5	Jackson	628	Cottonwood
624	Nobles	629	Watsonwan

63 Southwest central counties

Minnesota River valley

631	Brown	636	Lyon
632	Nicollet	5	Lincoln
633	Sibley	637	Yellow Medicine
634	Renville	638	Lac Qui Parle
635	Redwood	639	Chippewa

64 West central counties

641	Swift	645	Douglas
642	Stevens	646	Pope
643	Big Stone	647	Stearns
5	Traverse	648	Kandiyohi
644	Grant	649	Meeker

65 Southeast central counties

651	Wright	656	Dakota
652	McLeod	657	Hennepin
653	Carver	9	Minneapolis
654	Scott	658	Ramsey
655	LeSeuer	1	St Paul
5	Rice	659	Washington

DECIMAL CLASIFICATION

Minnesota

977 66	East central counties			
661	Chisago	666	Sherburne	
662	Pine	667	Benton	
663	Kanabe c	668	Mille Lacs	
664	Isanti	669	Morrison	
665	Anoka			
67	Northeast counties			
671	Crow Wing	672	Aitken	673 Carlton
674	Lake Superior counties			
675	Cook	677	St Louis	
676	Lake	1	Duluth	
678	Itasca	679	Koochichung	
68	North central counties			
681	Lake of the Woods	686	Cass	
682	Beltrami	687	Wadena	
683	Clearwater	688	Todd	
684	Becker	689	Ottertail	
685	Hubbard			
69	Northwest counties			
691	Wilkin	696	Red Lake	
692	Clay	5	Purinton	
693	Norman	697	Marshall	
694	Mahnomen	698	Roseau	
695	Polk	699	Kittson	

7

Iowa

12 June 1838 organized as a territory

28 Dec. 1846 admitted as 29th state Area 56 025 sq mi.
99 counties

Sobriquet Hawkeye state Capital Des Moines

Iowa

977	71	Northwest counties
	711	Lyon
	6	Osceola
	712	Dickinson
	5	Emmet
	713	Sioux
	714	O'Brien
	715	Clay
	5	Palo Alto
	716	Plymouth
	717	Cherokee
	718	Buena Vista
	719	Pocahontas
	72	Central north counties
	721	Kossuth
	722	Winnebago
	723	Worth
	4	Mitchell
	724	Hancock
	725	Cerro Gordo
	726	Floyd
	727	Humboldt
	4	Wright
	728	Franklin
	729	Butler
	73	Northeast counties
	731	Howard
	5	Chickasaw
	732	Winneshiek
	733	Allamakee
	734	Bremer
	735	Fayette
	736	Clayton
	737	Blackhawk
	1	Wasson
	738	Buchanan
	5	Delaware
	739	Dubuque
	1	Dubuque (city)
	74	Central west counties
	741	Woodbury
	1	Sioux City
	742	Ida
	4	Sac
	743	Calhoun
	744	Monona
	745	Crawford
	746	Carroll
	6	Greene
	747	Harrison
	748	Shelby
	6	Audubon
	749	Guthrie

DECIMAL CLASSIFICATION

Iowa

977 75 Central counties

751 Webster

1 Fort Dodge

752 Hamilton

753 Hardin

7 Grundy

754 Boone

6 Story

755 Marshall

1 Marshalltown

756 Tama

757 Dallas

758 Polk

1 Des Moines

759 Jasper

6 Poweshiek

76 Central east counties

761 Benton

762 Linn

1 Cedar Rapids

763 Jones

764 Jackson

765 Iowa

5 Johnson

766 Cedar

767 Clinton

1 Clinton (city)

768 Muscatine

1 Muscatine (city)

769 Scott

1 Davenport

77 Southwest counties

771 Pottawattamie

1 Council Bluffs

772 Cass

773 Adair

774 Mills

775 Montgomery

776 Adams

777 Fremont

778 Page

779 Taylor

78 Central south counties

781 Madison

782 Warren

783 Marion

784 Mahaska

785 Union

6 Clarke

786 Lucas

5 Monroe

787 Ringk, 11

5 Decatur

788 Wayne

789 Appanoose

Iowa

977 79 Southeast counties

- 791 Keokuk
- 792 Washington
- 6 Lousa
- 793 Wapello
- 1 Ottumwa
- 794 Jefferson
- 795 Henry
- 796 Des Moines
- 1 Burlington
- 797 Davis
- 798 Van Buren
- 799 Lee
- 1 Keokuk (city)

.8 Missouri

7 Dec 1812 organised as a territory 10 Aug 1821, admitted as 24th state
 Area 69,415 sq mi 114 counties and St Louis
 Sovereigns Bullion state Iron state Capital Jefferson City

81 Northwest counties

- 811 Atchison
- 5 Holt
- 812 Nodaway
- 6 Andrew
- 813 Buchanan
- 1 St Joseph
- 5 Platte
- 814 Worth
- 5 Gentry
- 815 Dekalb
- 5 Clinton
- 816 Clay
- 817 Harrison
- 818 Daviess
- 5 Caldwell
- 819 Ray

82 Central north counties

- 821 Mercer
- 5 Grundy
- 822 Livingston
- 5 Carroll
- 823 Putnam
- 5 Sullivan
- 824 Linn
- 825 Chariton
- 826 Schuyler
- 4 Adair
- 827 Macon
- 828 Randolph
- 1 Moberly
- 5 Howard
- 829 Boone

DECIMAL CLASSIFICATION

Missouri

- 977 83 Northeast counties
- 831 Scotland
 - 5 Knox
 - 832 Shelby
 - 5 Monroe
 - 833 Audrain
 - 5 Callaway
 - 834 Clark
 - 5 Lewis
 - 835 Marion
 - 1 *Hannibal*
 - 5 Ralls
 - 836 Pike
 - 837 Lincoln
 - 838 Montgomery
 - 6 Warren
 - 839 St Charles
 - 84 Central west counties
 - 841 Jackson
 - 1 *Kansas City*
 - 842 Cass
 - 843 Bates
 - 844 Vernon
 - 845 Lafayette
 - 5 Johnson
 - 846 Henry
 - 6 St Clair
 - 847 Saline
 - 848 Pettis
 - 1 *Sedalia*
 - 849 Benton
 - 6 Hickory
 - 85 Central counties
 - 851 Cooper
 - 852 Moniteau
 - 853 Morgan
 - 854 Camden
 - 855 Cole
 - 1 *Jefferson City*
 - 856 Miller
 - 857 Pulaski
 - 858 Osage
 - 859 Maries
 - 4 Phelps
 - 86 Central east counties
 - 861 Gasconade
 - 862 Crawford
 - 863 Franklin
 - 864 Washington
 - 865 St Louis
 - 866 *St Louis (city)*
 - 867 Jefferson
 - 868 St Francis
 - 869 Ste Genevieve
 - 4 Perry

Missouri

977	87	Southwest counties
	871	Barton
	872	Jasper
	1	<i>Joplin</i>
	2	<i>Webb City</i>
	873	Newton
	6	McDonald
	874	Cedar
	5	Dade
	875	Lawrence
	876	Barry
	877	Polk
	878	Greene
	1	<i>Springfield</i>
	879	Christian
	4	Stone
	7	Taney
88		Central south counties
	881	Dallas
	5	Laclede
	882	Webster
	5	Wright
	883	Douglas
	5	Ozark
	884	Texas
	885	Howell
	886	Dent
	887	Shannon
	5	Oregon
	888	Iron
	5	Reynolds
	889	Carter
	4	Ripley
89		Southeast counties
	891	Madison
	892	Wayne
	893	Butler
	894	Bollinger
	895	Stoddard
	896	Cape Girardeau
	897	Scott
	898	Mississippi
	5	New Madrid
	899	Dunklin
	6	Pemiscot

978 Western or Mountain

Including general works on 'the West'

.1 Kansas

1541 explored by Spanish

30 May 1854 organized as separate territory, after successive inclusion in Louisiana and Missouri territories

20 Jan 1861 admitted as 34th state

Area 81 774 sq mi

105 counties

Slogan: Garden of the west, Sunflower state

Capital Topeka

.11 Northwest counties

111 Cheyenne

5 Sherman

112 Wallace

5 Rawlins

113 Thomas

5 Logan

114 Decatur

5 Sheridan

115 Gove

5 Norton

116 Graham

5 Trigo

117 Phillips

118 Rooks

119 Edwards

1 Hays

.12 Central north counties

121 Smith

5 Osborne

122 Jewell

123 Mitchell

124 Republic

125 Cloud

126 Ottawa

127 Washington

5 Clay

.128 Riley

1 Manhattan

129 Geary

1 Fort Riley

.13 Northeast counties

131 Marshall

132 Pottawatomie

133 Nemaha

5 Jackson

134 Brown

135 Doniphan

136 Atchison

1 Atchison

137 Jefferson

138 Leavenworth

1 Leavenworth (city)

139 Wyandotte

1 Kansas City

Kansas

978	14	Central west counties
	141	Greeley
	5	Hamilton
	142	Wichita
	5	Kearney
	143	Scott
	144	Finney
	145	Lane
	146	Ness
	147	Hodgeman
	148	Rush
	149	Pawnee
	1	<i>Larned</i>
	15	Central counties
	151	Russell
	152	Barton
	153	Lincoln
	5	Ellsworth
	154	Rice
	5	Saline
	6	<i>Salina</i>
	155	McPherson
	156	Dickinson
	157	Marion
	158	Morris
	1	<i>Council Grove</i>
	159	Chase
	16	Central east counties
	161	Wabaunsee
	162	Lyon
	1	<i>Emporia</i>
	163	Shawnee
	1	<i>Topeka</i>
	164	Osage
	5	Coffey
	165	Douglas
	1	<i>Lawrence</i>
	166	Franklin
	167	Anderson
	5	Johnson
	168	Miami
	1	<i>Oswatimie</i>
	169	Linn

DECIMAL CLASIFICATION

Nebraska

- 978 23 South central counties • Loess plains Nebraska plain
- Clas here general works on southern Nebraska and South Platte section
- .231 Blue River area
- Big and Little Blue Rivers Most of this area cald Jones co in 1854 but never organized as such For Jones co as organized see 978 233
- .232 Butler 4 Seward
- Organized as Greene co 1855 Name changed to Seward 1862
- 7 Saline
- Clas here also former Johnston co organ.2ed 1855 abolisht 1857
- .233 Jefferson
- Organized as Jones co 1856 Original Jefferson co. (now Thayer 978 2335) organized 1856 enlargd to include Jones 1867
- 5 Thayer 235 Polk
- .234 Fillmore 4 Hamilton
- 5 York 7 Clay For original Clay co see 978 229 Lancaster co.
- .236 Republican River area
- 237 Nuckolls Bostwick game and burd preserv
- 4 Webster 2384 Furnas
- 7 Franklin 7 Gosper
- 238 Harlan 239 Phelps
- 2394 Kearney Ft Kearney state historical park
- 7 Adams 8 Hastings
- 24 Central counties
- Platte valley plain Loup River area
- .241 Hall Grand Island Stolley state park
- 1 Grand Island (city)
- .242 Merrick
- 5 Nance
- Organized from Pawnee Indian reservation 1879
- .243 Howard 245 Buffalo
- .244 Sherman 246 Dawson
- .247 Custer Victoria Springs state park
- Clas here also Garber and Kountze cos as proposed 1875
- .248 Valley 249 Greeley

Nebraska

978 25	Northeast central counties	Loess hils section
	Elkhorn River area	
.251	Boone	
.252	Platte	
	Clas here also former Monroe co , organized 1856, added to Platte co 1859, and original Loup co , organized 1855, abolisht 1856 For prezent Loup co see 978 2767	
253	Colfax	
5	Stanton	
	Organized as McNeale co 1855 Absorbed by reorganized Izard co 1856 (Original Izard co , organized 1855, embraced most of prezent Wayne and Cedar cos , 978 257- 258) Name changed to Stanton 1862	
.254	Madison	1 Norfolk 255 Antelope
256	Pierce	
	For original Pierce co see 978 2273 Otoc co	
.257	Wayne	258 Cedar
.259	Knox	
	Organized as L'Eau qui Court Co 1857 Name changed to Knox 1873 (Suggested change to Emmet, 1867, not accepted). Includes former Santee Indian reservation	
26	Western Nebraska	Great plains counties
27	Sand hils region	North central counties
	Clas here general works on northern Nebraska	
.271	Niobrara River section	
	Also cald L'Eau qui Court or Running Water River	
.272	Boyd	Twin Buttes
5	Keyapaha	Springview Table
.273	Cherry	Niobrara national forest and game reserv
6	Brown	274 Rock
.2745	Holt	Holt Table
	Clas here also West co , establisht 1860 but never organized	
.275	Southern sand hils section	
276	Wheeler	4 Garfield
7	Loup	For original Loup co see 978 252 Platte co
277	Blaine	4 Thomas Dismal River or Halsey national forest
7	Hooker	278 Grant
2785	Arthur	Includes former North Platte forest reserv
.279	McPherson	5 Logan

DECIMAL CLASIFICATION

Nebraska

- 978 28 Southwest counties
- 281 Loess canyons section
- 282 Lincoln
- Organized as Shorter co 1860 Name changed to
Line in 1861
- Brady Island Ft McPherson military cemetery
Lincoln co game and bird preserv
- 1 North Platte 284 Redwillow
- 283 Hayes 1 McCook
- 5 Frontier 5 Hitchcock
- 285 Perkins Plain section
- 286 Dundy 288 Perkins
- 287 Chase 289 Keith
- 29 Northwest counties High plains region Panhandle
- 291 Deuel 5 Garden Crescent Lake migratory bird refuge
- 292 Sheridan Clas here also proposed Kersey co
- 293 Dawes
- Dawes Table Pine Ridge Crow and Trunk Buttes
Cha Iron state park
- 294 Box Butte Box Butte Plains
- 295 Morrill
- North Platte Plain Stone Hills Castle Chimney
Courthouse and Jail Rocks
- 296 Cheyenne Cheyenne Plains
- Clas here former unorganized Taylor co which included
most of present Cheyenne Deuel Garden and Morrill
cos
- 297 Kimball
- Clas here also proposed Potter co and former unorgan-
ized Lyons co which included present Kimball Banner
and Scotts Bluff cos
- 5 Banner
- Wildcat Mt and Range Bighorn and Hogback Mts
- 298 Scotts Bluff *Scottsbluff* (city)
- Scotts Bluff national monument Ball Park Signal
Butte North Platte bird reservation
- 299 Sioux
- Bad Lands Pierre and White River Plains Lookout
and Pine Buttes
- 3 South Dakota Including works on Dakota as a whole
- 2 Nov 1890 admitted as 40th state (Dakota ter organ vol 2 Mar 1861 divided
into North and South Dakota)
- Area 785 sq m 68 counties
- Sobriquet Coyote state Capital Pierre

HISTORY: UNITED STATES

- 978.4 North Dakota
 2 Nov 1889 admitted as 39th state (Dakota ter organized 2 Mar 1861 divided into North and South Dakota)
 Area 70,183 sq mi 53 counties
 Sobriquet Flickertail state Capital Bismarck
- .5
- .6 Montana
 26 May 1864 territory organized Name means Mountain Land
 8 Nov 1889 admitted as 41st state
 Area 146 201 sq mi 51 counties
 Sobriquet Treasure state Capital Helena
- .7 Wyoming
 25 July 1868 Wyoming territory organized
 10 July 1890 admitted as 44th state
 Area 97 594 sq mi 21 counties and Yellowstone national park
 Sobriquet Stab Toe state Capital Cheyenne
- .8 Colorado
 1859-61 proposed territory and state of Jefferson 28 Feb 1861
 Colorado territory organized 1 Aug 1876 admitted as 38th
 state Area 103 948 sq mi 63 counties Sobriquets Centennial
 or Silver state Capital Denver (978 883)
- 81 Colorado plateaus Western Colorado
- 811 Northern plateau region Northwest counties
 Colorado or Grand River valley
- 812 Moffat
- 814 Routt Elk Head Mts Routt national forest
- 815 Rio Blanco White River national forest
- 816 Garfield Roan or Book Plateau
- 817 Mesa 1 Grand Junction
 Grand Mesa Colorado national monument, Grand
 Mesa or Battlement national forest
- 818 Delta
- 819 Montrose Uncompahgre Plateau and national forest
- 82 Southern plateau region Southwest counties
- 822 Ouray 825 San Juan
- 823 San Miguel 826 Dolores
- 827 Montezuma
 Mesa Verde Mesa Verde national park, Yucca House
 national monument Montezuma national forest, Ute
 Indian reservation
- 829 La Plata La Plata Mts

DECIMAL CLASIFICATION

Colorado

978 83	Rocky Mountain region	Central Colorado
	Colorado Rockies, Continental divide	Clas general works on
	Rocky Mts in 978	
.831	Southern Colorado Rockies	South central counties
	Rio Grande national forest	
.832	Archuleta	San Juan or Durango national forest
.833	Conejos	Organized as Guadalupe
.835	Costilla	Sangre de Cristo grant
.836	Alamosa	.837 Rio Grande
.838	Mineral	San Juan Mts, Wheeler national monument
.839	Hinsdale	
84	West central Colorado Rockies	
	Saguache or Sawatch Range	
841	Gunnison	Elk Mts, Gunnison national forest
843	Pitkin	Sopris national forest
844	Eagle	Mt of the Holy Cross, Holy Cross national forest
.845	Summit	Gore Range
846	Lake	
	Mts Elbert and Massive, Twin Lakes, Leadville Basin, Leadville national forest	
847	Chaffee	
.849	Saguache	
	Sangre de Cristo Range, San Luis Park or Valley, Cochetopa national forest	
85	East central Colorado Rockies	
.851	Huerfano	Huerfano Park
.852	Custer	Wet Mts, San Isabel national forest
.853	Fremont	
	Royal Gorge of the Arkansas. See also 978 89 Arkansas River valley in Colo	
.855	Pueblo	1 Pueblo (city)
.856	El Paso	1 Colorado Springs
	Pikes Peak, Garden of the Gods	
858	Teller	Cripple Creek
859	Park	
	Mosquito or South Park Range, South Park, Pike national forest	
86	Northern Colorado Rockies	North central counties
861	Clear Creek	.863 Boulder
862	Gilpin	1 Boulder (city)
.865	Grand	
	Front, Snowy or Rampart Range, Middle Park, Grand Lake, Arapahoe national forest	
866	Jackson	Park and Rabbit Ears Ranges, North Park
868	Larimer	1 Fort Collins
	Medicine Bow and Laramie Ranges, Colorado national forest	
.869	Rocky Mountain national park	Estes Park Longs Peak

HISTORY: UNITED STATES

Colorado

978 87	Great plains region	Eastern Colorado
	Clas general works on Great plains in 978	
871	Northern Colorado Great plains	Northeast counties
	Clas here general works on northern Colorado South Platte valley	
	Clas here general works on South Platte see also 978 2 Platte River, Neb	
.872	Weld	876 Sedgwick
1	Greeley	877 Phillips
874	Morgan	878 Yuma
875	Logan	879 Washington
88	West central Colorado Great plains	
881	Adams	886 Douglas
882	Arapahoe	887 Elbert
883	Denver (co and city)	889 Lincoln
884	Jefferson	Denver mountain parks
89	Southern Colorado Great plains	Southeast counties
	Clas here general works on southern Colorado Arkansas River valley	
	Clas general works on Arkansas River in 976 73, see also 978 853 Royal Gorge of the Arkansas	
891	Kit Carson	896 Las Animas 1 Trinidad
892	Cheyenne	Culebra Range, Spanish
893	Kiowa	Peaks
894	Crowley	897 Bent
895	Otero	898 Prowers
		899 Baca

.9 New Mexico

2 Feb 1848 ceded by Mexico
 9 Sep 1850 territory organized enlarged 1853 by Gadsden purchase
 6 Jan 1912 admitted as 47th state Area 122 503 sq mi
 29 counties Capital Santa Fe

979 Pacific

.1 Arizona

2 Feb 1848 ceded by Mexico and enlarged by Gadsden purchase 1853
 24 Feb 1863 territory organized 14 Feb 1912 admitted as 48th state
 Area 113 810 sq mi 14 counties
 Sobriquets Valentine Hassayampa state Capital Phoenix

.2 Utah

2 Feb 1848 ceded by Mexico 9 Sep 1850 territory organized
 4 Jan 1896 admitted as 45th state
 Area 82 184 sq mi 29 counties
 Sobriquet Salt Lake state Capital Salt Lake City

.3 Nevada

2 Mar 1861 territory organized 31 Oct 1864 admitted as 36th state
 Area 100 821 sq mi 17 counties
 Sobriquet Silver state Capital Carson City

DECIMAL CLASSIFICATION

979.4

California

Admitted 9 Sep 1850, as 31st state Area 155 652 sq. mi.
58 counties

Sobriquet Golden state Capital Sacramento
Northern or Superior California

Use 979.41 as a general number including 41-43

41 Coast range counties north

411 Del Norte

412 Humboldt

414 Trinity

415 Mendocino

417 Lake

418 Sonoma

419 Napa

42 Northeast counties

421 Siskiyou

423 Modoc

424 Shasta

426 Lassen

427 Tehama

429 Plumas

43 North central counties

431 Glenn

432 Butte

433 Colusa

434 Sutter

435 Yuba

436 Sierra

437 Nevada

438 Placer

Central California

Use 979.44 as a general number including 44-48

44 East central counties

441 El Dorado

442 Amador

443 Alpine

444 Calaveras

445 Tuolumne

446 Mariposa

447 Yosemite

448 Mono

45 Central counties Sacramento valley

451 Yolo

452 Solano

453 Sacramento

454 Sacramento (city)

455 San Joaquin

456 Stockton

457 Stanislaus

458 Merced

California

979 46

West central counties San Francisco group

461 San Francisco co and city

462 Marin

463 Contra Costa

465 Alameda

*Alameda (city)*466 *Oakland*467 *Berkeley*

469 San Mateo

47 Coast range counties south

471 Santa Cruz

473 Santa Clara

474 *San José*

475 San Benito

476 Monterey

478 San Luis Obispo

48 South central counties

481 Madera

482 Fresno

483 *Fresno (city)*

485 Kings

486 Tulare

487 Inyo

488 Kern

Southern California

49 Southern counties

491 Santa Barbara

Islands San Miguel Santa Rosa Santa Cruz, Santa Barbara

492 Ventura

Islands Anacapa, San Nicholas

493 Los Angeles

Islands Santa Catalina San Clemente

494 *Los Angeles (city)*

495 San Bernardino

496 Orange

497 Riverside

498 San Diego

San Diego (city)

499 Imperial

979 5 Oregon

14 Aug 1848 territory organized 14 Feb 1859 admitted as 33d state Area 96 699 sq mi 36 counties Sobriquets Beaver or Webfoot state Capital Salem (979 5371)

Clas here general works on Pacific northwest

51 Western Oregon

Cascade Range Coast ranges Clas here general works on Cascade Mts see also 979 75 Cascade Mts in Wash

52 Southwest counties

Southern Oregon organized as Umpqua co 1851 South ern coast region Rogue River valley, Klamath Mts

521 Curry Siskiyou national forest

523 Coos Rogue River mts Coos Bay

525 Josephine

Siskiyou Mts, Oregon Caves national monument (Umpqua co caves Marble Caves)

527 Jackson Crater national forest 1 Medford

529 Douglas

Umpqua River valley, Calapooia Mts, Umpqua national forest

53 West central counties Willamette valley Central coast region

531 Lane

Three Sisters McKenzie River Cascade and Siuslaw national forests

1 Eugene 534 Benton Mary's Peak

533 Lincoln Yaquina Bay 1 Corvallis

535 Linn

Mt Jefferson Santiam River Santiam national forest

537 Marion 1 Salem

Cald Champoeg (Champoosick) til 1849 Champoeg park

538 Polk Yamhill Mts 539 Yamhill Chehalem Mts

54 Northwest counties Northern coast region Lower Columbia valley

Clas general works on Columbia River in 979 73

541 Clatsamas 1 Oregon City

Oregon or Mt Hood national forest

543 Washington Cald Tuality (Tuality) til 1849

544 Tillamook 547 Columbia

546 Clatsop 549 Multnomah

1 Astoria 1 Portland

Oregon

- 979 55 Eastern Oregon
 56 North central counties Columbia Plateau
 Clas general works on Columbia River and Plateau in
 979 73 Deschutes and John Day River valleys
 561 Hood River Mt Hood
 562 Wasco
 Mutton Mts Dalles of the Columbia, Warm Springs
 Indian reservation
The Dalles (city)
 564 Sherman 565 Gilliam 567 Morrow
 569 Umatilla 1 *Pei dleton*
 Umatilla Indian reservation Umatilla national forest
 57 Northeast counties Blue Mountain region
 Clas here general works on Blue Mts see also 979 746 Blue
 Mts in Wash Snake River clas general works on Snake
 River in 979 61
 571 Union 1 La Grande
 Eagle Mts Grande Ronde valley Minam national
 forest
 573 Wallowa
 Wallowa Mts Eagle Cap Mt Sentinel Peak, Powder
 River Mts Wallowa national forest
 575 Baker 1 *Baker* (city)
 Burnt River Mts
 578 Grant
 Strawberry and Buck Mts Malheur and Whitman
 national forests
 58 Central counties Central Oregon
 581 Wheeler
 583 Crook Maury Mts Ochoco national forest
 585 Jefferson
 587 Deschutes 1 *Bend*
 Paulina Mts, Lava caves Deschutes national forest
 59 Southeast counties Lake basin
 591 Klamath
 Walker Range (Rim or Mt) Mt Thielsen Upper
 Klamath Lake Klamath Indian reservation Paulina
 national forest
 5 Crater Lake national park
 Crater Lake Mt Mazama Mt Scott, Union Peak
 593 Lake
 Warner and Wagon re Mts Winter Ridge Summer
 Lake Lake Abert Warner Valley and Lakes Fremont
 national forest
 595 Harney
 Steens (Steins) Mts Harney and Malheur Lakes
 597 Malheur
 Cedar and White Horse Mts Saddle Mt Malheur and
 Owyhee Rivers

979 6

Idaho

Part of Louisiana purchase First included in Oregon later in Washington territory See also 979 5 Oregon and Pacific north west 3 Mar 1863 territory organized 3 July 1890 admitted as 43d state Area 83 888 sq mi 44 counties Sobriquet Gem state Capital Boise (979 6281)

Columbia Plateau clas general works on Columbia Plateau in 979 73 Idaho Rockies clas general works on Rocky Mts in 978

61

Southern Idaho Snake River plains

Clas here general works on Snake River, see also 979 65 Upper Snake River district 979 57 Snake River valley in Ore, 979 74 in Wash

62

Southwest counties

621

Owyhee Owyhee Mts 624 Payette

623

Canyon 625 Washington

1

Nampa

626

Adams Seven Devils Mts Weiser national forest

627

Gem 628 Ada 1 Boise (city)

629

Elmore Little Camas Prairie

63

South central counties

Alturas 1 of original counties embraced present Elmore Camas, Blaine Minidoka Lincoln Jerome Gooding Custer and part of Power

631

Camas Big Camas Prairie

632

Blaine

Embraces former counties of Alta and Logan. Hyndman Peak Craters of the Moon national monument Sawtooth national forest

633

Minidoka 635 Jerome

634

Lincoln 636 Gooding Thousand Springs

637

Twin Falls 1 Twin Falls (city)

Shoshone and Twin Falls

639

Cassia

Goose Creek and Black Pine Mts Minidoka national forest

64

Southeast counties

641

Oneyda Malade and Hansel Ranges Blue Spring Hills

642

Franklin

644

Bear Lake

Bear River Range Bear Lake Caribou national forest

645

Caribou Preuss Range Aspen Ridge

647

Bannock

Port Neuf and Bannock Ranges Pocatello national forest

1

Pocatello

649 Power

Idaho

- 979 65 Northeast counties Upper Snake River district
 Clas general works on Snake River in 979 61
- 651 Bingham Blackfoot Mts, Ft Hall Indian reservation
- 653 Bonneville 1 Idaho Falls (city)
 Caribou Range John Gray's Lake
- 654 Teton Pierre's Hole Mts, Teton Basin (Pierre's Hole), Palisade
 national forest
- 655 Madison Snake River Mts
- 656 Fremont Targhee national forest
- 657 Clark 658 Jefferson
- 659 Butte Little Lost River Mts Lemhi national forest
- 66 Central Idaho Bitterroot Range
- 67 Southeast central counties
 Sawtooth Mts Salmon Lost River district
- 672 Custer Lost River and Pahsimeroi Mts Challis national forest
- 674 Boise Boise national forest
- 676 Valley Idaho and Payette national forests
- 678 Lemhi Salmon River Mts Lemhi range Yellow Jacket and
 Beaverhead Mts (Continental divide), Salmon national
 forest
- 68 North central counties
- 682 Idaho Salmon River valley, Clearwater and Craggs Mts North
 Camas Prairie Nez Perce and Selway national forests
- 684 Lewis Nez Perce Prairie
- 685 Nez Perce 1 Lewiston
 Clearwater River valley, Craig Mts
- 686 Latah Thatuna Hills, Upper Palouse Clas general works on
 Palouse country in 979 739
- 688 Clearwater Clearwater national forest
- 69 Northern Idaho Panhandle counties
- 691 Shoshone Coeur d Alene Mts, St Joe national forest
- 693 Benewah
- 694 Kootenai 1 Coeur d Alene (city)
 Coeur d Alene Lake, Rathdrum Prairie, Coeur d Alene
 national forest
- 696 Bonner Cabinet Mts, Pend Oreille and Priest Lakes, Kaniksu
 national forest. Clas general works on Kaniksu national
 forest in 979 721
- 698 Boundary Pend Oreille national forest

- 979-7 **Washington**
 Formerly part of Oregon territory 2 Mar 1853 territory organized 11 Nov 1889 admitted as 42d state Area 69,127 sq mi 39 counties Sobriquets Evergreen or Chinook state Capital Olympia (979 7791)
- 71 **Eastern Washington**
 Inland empire includes also northeast Oregon 979 57 and northern Idaho 979 69
- 72 **Okanogan Highlands** Northeast counties
- .721 **Pend Oreille**
 Kaniksu national forest Clas here general works on Kaniksu national forest, see also 979 696 Kaniksu national forest in Id
- .723 **Stevens**
 Huckleberry Mts, Spokane Indian reservation
- 725 **Ferry**
 Kettle River Range, Colville national forest, Colville Indian reservation
- 728 **Okanogan**
 Sawtooth Ridge, Buckhorn Mts, Okanogan national forest
- 73 **Columbia Plateau** East central counties
 Columbia River, Big Bend country Clas here general works on Columbia River and Plateau, see also 979 54 Lower Columbia valley in Ore, 979 56 Columbia Plateau in Ore, 979 6 Columbia Plateau in Id, 979 78 Columbia-Cowlitz basin
- 731 **Douglas** Badger Mts
- 732 **Grant**
 Saddle Mts, Frenchman Hils, Grand Coulee, Moses Lake
- 733 **Franklin** 737 Spokane
- 734 **Adams** Spokane River
- 735 **Lincoln** 1 Spokane (city)
- 739 **Whitman**
 Palouse country includes also part of Latah co., Id. 979 686
- 74 **Southeast counties**
 Lower Snake River, Clas general works on Snake River in 979 61
- 742 **Asotin** .744 Garfield
- 746 **Columbia**
 Northern Blue Mts Clas general works on Blue Mts in 979 57 Wenaha national forest
- 748 **Walla Walla** 1 Walla Walla (city)

Washington

979	75	Yakima and Wenatchee valleys	Central Washington counties
		Northern Cascade Range	Class general works on Cascade Mts in 979 51
751		Benton	Horse Heaven Hills and Plateau
753		Klickitat	
755		Yakima	I Yakima (city)
			Mt Adams, Rattlesnake and Yakima Ridges, Cleman Mts, Yakima River, Yakima Indian reservation
757		Kittitas	Wenatchee Mts, Manastash Ridge
759		Chelan	I Wenatchee
			Mt Stuart, Entiat Range, Chelan Mts, Wenatchee River, Lake Chelan, Chelan and Wenatchee national forests
76		Western Washington	
77		Puget Sound counties	Puget Sound
771		Snohomish	I Everett
			Glacier Peak, Snoqualmie national forest Tulalip Indian reservation
772		Skagit	
			Fidalgo, Guemes and Cypress Islands, Rosarno Strait, Swinomish Indian reservation
773		Whatcom	I Bellingham (city and bay)
			Lummi Island, Mt Baker, Custer and Skagit Ranges, Washington or Mt Baker national forest, Lummi Indian reservation
774		San Juan	
			San Juan, Orcas and Lopez Islands Washington Sound (San Juan Archipelago), Canal de Haro (Haro Strait)
775		Island	Whidbey and Camano Islands
776		Kitsap	
			Bainbridge Island, Hood Canal, Port Madison Indian reservation
I		Bremerton	Puget Sound navy yard
777		King	I Seattle
			Vashon Island, Lake Washington Muckleshoot Indian reservation
778		Pierce	I Tacoma
			Nisqually and Puyallup Indian reservations
5			Mt Rainier national park Mt Rainier
779		Thurston	I Olympia
			Black Hills, Chehalis Indian reservation
78		Columbia-Cowlitz basin	Southwest central counties
			Class general works on Columbia River in 979 73
782		Lewis	
			Tatoosh Range, Cowlitz River, Rainier national forest
784		Skamania	
			Mt St Helens, Columbia national forest
786		Clarke	I Vancouver (city)
			Cald Vancouver 1845-9
788		Cowlitz	

DECIMAL CLASSIFICATION

Washington

- 979 79 Coast counties
 - Coast ranges, Coastal lowland
- .791 Wahkiakum
- .792 Pacific
 - Willapa Hills, Willapa Bay (Shoalwater Bay), Shoal water Indian reservation
- 794 Olympic peninsula
 - Olympic Mts, Olympic national forest
- 795 Grays Harbor
 - Cald Chehalis 1854-1915 Grays Harbor (bay), Quinault Indian reservation
- 1 Aberdeen 2 Hoquiam
- .797 Mason
 - Cald Sawamish 1854-64 Skokomish and Squaxin Island Indian reservations
- 798 Jefferson
 - Mt Olympus national monument, Mt Olympus, Hoh Indian reservation
- .799 Clallam
 - Juan de Fuca Strait, Makah, Ozette and Quillayute Indian reservations
- .8 Alaska

Aug 1912 organized as territory

980 South America Latin America Spanish America

1-6 South American Indians Divided like 970.1-5

- 981 Brazil
- 982 Argentina Patagonia
- 983 Chile
- 984 Bolivia
- 985 Peru
- 986 U. S. of Colombia Panama New Granada
Ecuador
- 987 Venezuela
- 988 Guiana
- 989 Paraguay Uruguay

990 Oceania Polar regions

991 Malaysia

- 1 Borneo 2 Celebes 3 Moluccas or Spice islands
4 Philippine islands

992 Sunda

- 1 Sumatra 2 Java

993 Australasia

- 1 New Zealand 2 New Caledonia 3 Loyalty islands
4 New Hebrides 5 Solomon islands 6 New Britain, New
Ireland 7 Admiralty islands

994 Australia

Period divisions

- 01 Discovery -1779
Clas here works dealing exclusively with Australian aspects
For general accounts of voyages of discovery see 910 4
- 02 First settlement and early growth 1779-1851
Convicts and military autocracy pastoral expansion free
immigration and agitation for self government convicts v
free settlers
- 03 Gold discoveries and consolidation 1851-91
- 04 Formation of the Commonwealth 1891-1922
Federal movement and development of federal institutions
Period of European war (1914 18) and its aftermath (See also
940 394 for military participation of Australia)
- 05 Later 20th century 1923-
Including general works on 20th century Bruce 1923-9
Scullin 1929-31 Lyons 1931-8 Menzies 1938-

Geografic divisions

- | | | | |
|-----|--------------------|---|--|
| 1 | Western Australia | 4 | New South Wales |
| 2 | South " | 5 | Victoria |
| 29 | Northern Territory | 6 | Tasmania |
| 291 | Central Australia | 7 | Australian Capital Territory Canberra |
| 295 | North " | 8 | Isolated islands |
| 3 | Queensland | | Lord Howe Norfolk Philip etc |

995 New Guinea

996 Polynesia

- 1 Fiji Friendly and Navigator islands 2 Society Austral and
Cook islands 3 Marquesas islands and Low Archipelago
4 Minor Polynesian islands 5 Micronesia 6 Caroline and
Pelew islands 7 Ladrone islands 8 Marshall and Gilbert
islands 9 Hawaii

997 Isolated islands

998 Arctic regions

General number for Polar regions

999 Antarctic regions



DECIMAL CLASSIFICATION

AND

RELATIV INDEX

BY MELVIL DEWEY A M LL D

EDITION 14

REVISED AND ENLARGED

VOLUME 2: RELATIV INDEX

FOREST PRESS INC

LAKE PLACID CLUB

ESSEX COUNTY N Y

1942

Decimal Classification and Relative Index

Copyright by

Meivyl Dewey

1876 1885 1911 1913 1915 1919

Library Bureau

1888 1891 1894 1899

Lake Placid Club Education Foundation

1922 1927 1932 1942

Modifying D C numbers

Confusion and annoyance to thousands of users caused by printing unauthorized variations force the publishers to insist strictly on full copyright protection. Every library and individual user has, however, entire freedom to make such variations as he thinks he needs, under the simple restrictions found necessary to protect the rights of others. See v 1, p 35²-38¹, Letter or symbol notations for changes or additions.

Note on spelling of Ed 14

In response to the expressed sentiment of many D C users, the Decimal Classification Committee voted 16 May 1911 to adopt conventional spelling for the index of Ed 14. In deference to the lifelong convictions of the author, however, his statements regarding simpler spelling are reprinted in this edition without alteration. Statements regarding D C usage will be understood, therefore, as applying to Tables and prefatory matter, but not to Index of Ed 14.



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Explanatory note to the Relativ Index

Never classify solely from the Index; always verify in the Tables. This advice can not be overemphasized. The Relativ Index, as any other index, is a means of finding an entry for a particular topic, or some phase of a topic, and the number there referred to should be used as a clue to the Tables, not as a class mark. The entries of the Index are so worded as to give a guiding idea of the field in which a topic, or its particular aspect, is treated. Tho to make an entry comprehensible sometimes requires an extensive phraseology, most of the entries are rather brief. The relativity of juxtaposed entries gives quite often an idea of different phases, approaches, or variant meanings of a word, and may guide the user of the scheme to certain Tables which, after examination, should be the only criterion in selecting a class mark for a specific item.

Conventional spelling has been adopted for the Index by the Decimal Classification Committee for the sole purpose of diminishing the inevitable inconvenience to users. A person with a book in hand is influenced by the vocabulary and spelling used by its author. Since the latter in most cases follows conventional standards the problem of locating a topic will be facilitated if it is spelled the same way in the Index.¹ This, however, does not solve the problem of locating one or more places in which the topic in question is treated in the Tables.

Here comes the question of terminology. Very seldom do people think of a subject in exactly identical terms. So far as possible the entries of the Index are expressed in terms of current usage. But there are so many synonymous or similar terms by which an idea may be expressed that the inclusion of all possible words of approach would result in a bulky index many times larger than the Tables containing the ideas. The choice of entry words 'catch words', and of subsequent terms following the entry is a difficult problem. As far as feasible the terms chosen for entries are those that on the one hand belong to the terminology of a subject, and on the other are most likely to come to one's mind when thinking of a topic. Quite often they are not identical, and thus a classifier has to exercise his imagination and bring into play his knowledge in order to find a desired term. To facilitate this search numerous cross references are included thruout the Index. Here it may be suggested that when a term is found it should be kept in mind that other forms of the same root may profitably be examined as well. Take for instance, the entry word 'Nation'. First of all, the plural form should be kept in mind. However, between 'Nation' and 'Nations' there are 5 other entry words of the same root: National, Nationalist, Nationalities, Nationality and Nationalization. It is not always possible to say beforehand under which of these terms the desired aspect of the subject 'Nation' will be found. The phraseology of the entries is so planned as to indicate what phase of a topic is under any particular class mark, but by consulting the Tables a successful solution of the problem may be secured more quickly and safely than by analysing this phraseology, which is intended to furnish only clues and not the final answers.

The initiative and resourcefulness of a classifier will be very helpful when it becomes desirable to examine various entries related to a topic but expressed in words of different etymologic roots. A few examples may illustrate this point. There are entries under 'Milk', but there are also entries under 'Butter', 'Buttermilk', 'Cheese', 'Cream', 'Dairy', 'Lacto-', under which an aspect in question may be found not mentioning 'Nutrition', 'Curdling', and other entries closely connected with milk. Similarly, various aspects of the topic 'Heart' may be found under 'Blood', 'Cardiac', 'Circulation', 'Pulse', etc.

¹ Tho the spelling in the Tables has not been revised it should not cause great inconvenience to classifiers because the context always makes readily understood the meaning of amplified words.

Generally the topics in the Index are expressed by nouns. In many cases the singular form is used as an adjective and the plural form as a noun tho there are inevitable but not numerous exceptions. Adjectives are also used as entry word when they are striking in character or are of the same root as the noun by which an idea is expressed. Such adjectives as 'large' 'small' 'artificial', etc. are generally used in subheads but not as entry words. In some cases distinctive phrases are used in both direct and inverted forms e.g. 'Hygiene industrial' and 'Industrial hygiene'. Names of societies clubs associations etc. are used in their official forms. In case of singular entries synonymous words or alternative spellings are duplicated. Similarly pseudonyms and real names are accompanied by class marks without cross references from one form to another.

The order of entries is alphabetic and should not cause any inconvenience in cases of deviation from the strict alphabetic sequence. Names with Mac and Mc are listed as if spelled Mac. Germanic terms with a o u are listed as if spelled ae oe ue.

Tho the spelling in the Index is that of standard English dictionaries (Standard and Webster being followed in most cases) a simpler form of a word has always been preferred if it can be found in its proper alphabetic place as 'hight' in place of 'height' page instead of 'gauge'. Initial and middle ligatures 'ae' and 'oe' are used only in scientific names thus there are 'Esthetics' 'Eolian' 'Esophagus', etc. instead of 'Aesthetics' 'Aeolian' and 'Oesophagus'. As far as abbreviations and contractions are concerned they are placed as if spelled in full. Thus 'blood' precedes 'bldg' 'mfg' precedes 'math' etc. However no discrimination has been made in case of repeated abbreviations thus 'psychology' 'psychologic' 'geography' 'geographic' etc. follow the order of other parts of neighboring entries.

Quite often hyphenated entries are given in transposed form i.e. their first part is a subhead of the second part. The hyphen following the transposed first part clearly indicates the original form of the entry.

Each entry should be verified in its proper place in the Tables. In case an entry has a class mark longer than that printed in the Tables the excess figures represent an authorized subdivision (numerous places in Tables indicate such subdivisions) or form division from Supplementary table 2.

Topics which can be treated locally i.e. subdivided geographically (see Supplementary table 1) in previous editions were placed under names of countries. In this edition such topics are set with a few examples of geographic treatment which should suggest the technic of building up a class mark for any desired country. In some cases treatment of a topic by locality deviates from usual principle of divided like 930-999. In such cases this can be found under an entry word. As an illustration of Law Eng 346 Law US 345 and Law in (country) 349 —

Since the arrangement of subheads by indentions used in this Index may necessitate omission of a comma the exact phraseology of an entry should be visualized. Thus 'Glass blowing and Glass burning' appear without a comma in the latter case and its exact meaning may be restored by visualizing the missing punctuation.

In many cases the conjunction 'and' indicates relation between connected topics e.g. 'Education and religion' 'Blood and spleen' 'Genius and crime', etc.

Under numerous entries there are references reading 'see also' qualifying or specific terms. To illustrate the meaning of such references see 'Rocks'. There are various kinds of rocks that are listed under qualifying terms as 'Plutonic rocks', 'Sedimentary rocks' 'Volcanic rocks' etc. and also particular entries under specific terms as 'Felsites' 'Granite' 'Syenite' etc. Since all these topics may be found under 552 to list them under 'Rocks' would bring in alphabetic order all rocks under the single approach of the entry 'Rocks'. The adopted arrangement however, gives several approaches and thus there is a greater possibility of locating a desired topic. If we should duplicate all entries under 'Rocks' and also under qualifying or specific terms it would greatly increase the bulk of the Index. The included expansions and coming expansions in succeeding editions require economy in entries that may not imperil the usefulness of the Index.

In connection with this the Decimal Classification Editorial Office would appreciate any comment criticism suggestion etc concerning the Index and the scheme as a whole. Only thru cooperation between interested people and our Office may we expect to make satisfactory progress in answering the needs of classifiers — whether librarians or private individuals. Various users of the DC scheme communicate from time to time with this Office bringing attention to misprints and mistakes suggesting new topics for inclusion in coming expansions etc. All correspondence is sincerely appreciated and carefully considered.

Certain methods have been introduced that may be mentioned. First popular names of animals and plants which often are mentioned in agriculture and elsewhere are accompanied (in curves) by scientific names from zoologic and botanic schemes. This eliminates necessity of supplying under the same entry an additional class mark from those schemes. On the other hand it suggests that the topic in question may be classified as an item of botany or zoology as the case may be.

Another feature is that of using the dash in class marks. This indicates that such class marks are incomplete and that proper figures are to be added. For instance there are entries like these

Drama	l t	
² other		—2
Schools		
in other specific		
² fields see subject		—071
Voice signs		
² other lang		—28

The first case indicates that class mark for drama in any particular literature should be built by using specific number for the literature and by adding to that number

ad
etc

The third case is similar to the first one. Thus for Voice signs in Russian language we will have 491 728.

In all these and other similar cases the superior figures at left margin refer to Supplementary tables following this Index.

To avoid frequent repetitions in the Index of long lists of geographic philologic etc subdivisions 4 Supplementary tables are provided giving (1) subjects with class numbers of each which may be divided geographically (2) form divisions which may be applied thruout the main Tables as needed (3) languages with their class numbers which may be further subdivided by adding figures given in Supplementary table 4 and literatures with the r class numbers which may be subdivided by adding numbers for literary forms as given under English literature (4) philologic divisions with figures to be added in subdividing any language in Supplementary table 3.

Class numbers for description and travel are usually omitted. In certain cases when a mountain lake national park etc are more likely to have books of descriptive nature than of historical treatment these numbers are given and history numbers are omitted.

If literature and philology numbers are similar (except initial 8 or 4) the latter are indicated and the former omitted. If however the numbers in literature differ from those of corresponding languages both numbers are indicated e.g. Pali language is 491 3701 Pali literature 891 3 but Samese language is 495 91 and no literature number is given because it is 895 91.

In conclusion we may suggest once more to consult the Tables in each case when a topic in question has been located thru the Index. Systematic arrangement under various subjects in the Tables may provide better means for selecting the class mark than any entry in the Index. A glance at headings preceding and following the class number in question and examination of frequently found references and notes will facilitate the problem of classifying and will insure the correctness of a chosen class mark. Since typographic errors among entries of the Index are likely to be present, in spite of our efforts to catch them, we repeat again. Never classify solely from the Index, always verify in the Tables.

C J Mazney
M W Getchell

Washington D C

Abbreviations

Used in Index and Supplementary Tables

acad	academic, etc	chronol	chronology
acquis	acquisition	cinphot	cinematography, etc
admin	administration, etc	civ	civil
adver	advertising	co	company, or county
agric	agriculture, etc	coll'n(s)	collection(s)
Ala	Alabama	Colo	Colorado
Amer	American	commer	commercial
anal	analysis, etc	comp	comparative, etc.
anat	anatomy, etc	compos	composition, etc
anc	ancient	Conn	Connecticut
anim	animal(s)	constit	constitution, constituent, etc
anniv	anniversary	constr n(s)	construction(s)
antiq	antiquities	corp	corporation
apic	apiculture	cost	costume
apt	apartment	crim	criminal
archeol	archeology, etc	criminol	criminology
archi	architecture, etc	crystallog	crystallography, etc
Ariz	Arizona	cytol	cytology, etc
Ark	Arkansas	Dan	Danish
art	artistic	DC	District of Columbia
ass n(s)	association(s)	dec	decoration
astrol	astrology	Del	Delaware
astron	astronomy, etc	demog	demography, etc
avic	aviculture	dept(s)	department(s)
bibl	bibliography	descrip	description, etc
biog	biography	devel	developing, etc
bidg(s)	building(s)	diff	different, differential etc
bot	botany, etc	dis	diseases
Brit	British	dist	district
bus	business	distrib	distribution
Calif	California	div	division
Can	Canada Canadian	doc.	doctrine, etc
cap & labor	capital & labor	dom	domestic
Cath	Catholic	eccles	ecclesiology, etc
cen pow	central powers	ecol	ecology, etc
cent	century	econ	economy, etc
ch	church	educ	education, etc
chem	chemistry etc	elec	electricity, etc
Chan	Chinese	elem	element elementary, etc
Chr	Christian etc	embryol	embryology, etc
Christol	Christology	eng	engineering (not engines)

Eng	England English etc	limit	limitation
engr	engraving	lit	literature etc
entomol	entomology	lithog	lithography, etc
equip	equipment	loc	local etc
estab	establishment	mach	machine etc
eth.	ethics	maint	maintenance etc
etymol	etymology etc.	mammal	mammalogy
Eur (w)	European (war)	manage.	management
evol	evolution, etc.	Mass	Massachusetts
exped	expedition	math	mathematics etc
exper	experimental etc	Md	Maryland
f. arts	fine arts	Me	Maine
fertiliza	fertilization	mech	mechanical etc
fict	fiction	med	medical, medicine etc
fin	financial etc	ment	mental mentality, etc
Fla	Florida	metaphys	metaphysics etc
floric	floriculture	meteorol	meteorology
fruite	fruiteulture	meth	method(s)
furn	furniture	Mex	Mexico Mexican
Ga	Georgia US	mfgr	manufacturing
gard	gardening	Mich	Michigan
gen	general	mil	military
genera	generation	min	mineral
geod	geodesy etc	min'g	mining
geog	geographic, etc	Minn	Minnesota
geol	geology etc	misc	miscellany etc
geom	geometry etc	Miss	Mississippi
Ger	Germany, German	Mo	Missouri
Gk	Greek	mod	modern
gov t	government	modula	modulation etc
herpetol	herpetology	mon	monastic
hist	history	Mont	Montana
histol	histology	morphol	morphology etc
hortic.	horticulture	mot veh	motor vehicle(s)
Hung	Hungarian	ms(s)	manuscript(s)
hyg	hygiene	mt	mountain
Ia	Iowa	mus	museum or musical
ichthyol	ichthyology	nat	natural
Ida	Idaho	nat l	national
Ill	Illinois	nav	naval
illus	illustration	naviga	navigation
immig	immigration etc.	NB	New Brunswick
Ind	Indiana	NC	North Carolina
indiv	individual etc	ND	North Dakota
indus	industry etc	Neb	Nebraska
inorg	inorganic	Nev	Nevada
instit	institution etc	NH	New Hampshire
instr	instrument etc	NJ	New Jersey
insur	insurance	Norw	Norwegian
int'l	international (not internal)	NS	Nova Scotia
Ire	Ireland	NT	New Testament
It	Italy Italian	nuncic	nucleiculture
Jap	Japan Japanese	NY	New York
jurispr	jurisprudence	O	Ohio
Kan	Kansas	Okla	Oklahoma
Ky	Kentucky	Ont	Ontario
La	Louisiana	opera	operation
lands	landscape	ophthalmol	ophthalmology
lang	language (not languages)	ord	order
Lat	Latin	ordn.	ordnance
legis	legislature etc	Ore	Oregon
lib	library, etc	org	organ organic, etc

organiza organization
 organog organography, etc.
 orig origin etc
 ornithol ornithology
 OT Old Testament
 Pa Pennsylvania
 paleobot paleobotany
 paleozool paleozoology
 pathol pathology
 PEI Prince Edward Island
 pharm pharmacy, etc
 phenol phenology
 philol philology etc
 philos philosophy
 phot photography etc
 photoengr photoengraving
 photolithog photolithography
 phys physical
 physiog physiography
 physiol physiology etc.
 plan planning
 poet poetry
 polit political etc
 prac practical
 pres presidency etc
 preserva preservation
 priv private
 Prot Epis Protestant Episcopal
 prot'n protection
 prov province
 pseud pseudonym
 psychoanal psychoanalysis etc
 psychol psychology etc
 psychom psychometry
 pub public
 Que Quebec
 recrea recreation etc
 reg region regional
 regula regulation(s)
 rela relation
 relig religion etc
 revol revolution
 RI Rhode Island
 rit ritual
 Rom Roman
 Rus Russian
 rys rails
 S Amer South America

san eng sanitary engineering
 SC South Carolina
 Scan Scandinavian
 sci science etc
 Scot Scotch etc
 sculpt sculpture etc
 SD South Dakota
 sect sectarian etc
 shipbldg shipbuilding
 silvic silviculture
 soc social, society, etc
 sociol sociology, etc
 soteriol soteriology
 Sp Spain Spanish
 stat's statistics etc
 subj subject
 Swed Swedish
 syst system etc
 tech technology, technical etc
 Tenn Tennessee
 teratol teratology
 terr territory
 Tex Texas
 theol theology etc
 theor theoretic
 therap therapeutics
 trav travel etc
 univ & col universities & colleges
 US United States of America
 Va Virginia
 varia variation
 veget vegetable etc
 vet med veterinary medicine
 vitic viticulture
 vs versus
 Vt Vermont
 Wash Washington state
 Wis Wisconsin
 wks works
 WVa West Virginia
 Wyo Wyoming
 zool zoology etc
 zootech zootechny etc

— (dash) in class marks indicates omission (see p 1135)

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SUPPLEMENTARY TABLES

Table 1—Geographic divisions

The following subjects may all be divided geographically by adding the geographic numbers i.e. 4 Europe 5 Asia, 6 Africa, 7 North America, 8 South America, 9 Oceania. These can be further subdivided as minutely as wished, like the history, 930-999 which see for full table, e.g. 42, England, 73, United States, 944, New South Wales, 7471, New York City etc

France is numbered 944, omitting initial 9 and affixing the remaining figures, 44 to 912 gives 912 44, Atlases of France, New South Wales is 994 4, omit initial 9 and affix 944 to 912 and the result is 912 944 Atlases of New South Wales In the table below, Mints are 332 49 in the historical tables England is 942, adding these together (omitting the 9) gives 332 4942, Mints in England Colleges are 378, NY state, 974 7, add these together (omitting the 9) and the result is 378 747, colleges in NY state

For other topics which may be divided geographically consult Tables and Index Where no special provision is made for geographic subdivision, use 09 from Supplementary Table 2 see also form divisions 061-062 and 0711-3

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379 4 9	, pub	708 93 99	Art galleries
154 3- 9	Administration	362 93 99	Asylums
	for US see 353	027 23 29	Atheneum librs
923 53 59	biog	912 3 9	Atlases
923 53 59	Admirals lives	911 3 9	, hist
784 7193 9	Airs natl	013 93 99	Authors, foreign
591 93 99	Animals geog distrib	923 33 39	Bankers lives
913 3 9	Antiquities	332 153 159	Banking intl
611 493 499	Arable lands	013 93- 99	Bibliog of foreign authors
913 3 9	Archeology	016 93 99	hist
722 724	Architectural styles	015 3 9	special countries
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338 5893-9	Booms	914-919	Directories
581 93 99	Botany geog	591 93 99	Distrib of an un geog
022 333 339	Buildings lib	549 94 99	min "
331 193 199	Capital and labor	581 93 99	plants "
923 33 39	Cap talists lives	572 93 99	racess "
361 93 99	Charitable ass ns	741 93 99	Drawings
136 793 799	Childhood	274 279	Ecclesiastic hist
274 279	Church hist	378 4 98	Education college
281 1 289 8	Churches (denominat ons)	372 94 99	elem
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027 33 39	Circulating lbs	376 93 99	of women
027 43 49	City lbs pub	373 4 9	priv acads
923 53 59	Civil service biog	379 4 9	pub school
922	Clergymen s lives	923 73 79	Educators lives
	(see note in Tables)	372 94 99	Elementary educ
635 95294 99	Climate influence on plants	325 23 29	Emigrants
027 23 29	Club lbs proprietary	923 13 19	Emperors lives
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332 494 499	Coinage hist of	373 4 9	schools zdary
027 73 79	College lbs	769 93 99	Engravings
378 4 98	Colleges	572 93 99	Ethnology
325 33 39	Colonies and colonization	027 13 19	Family lbs
	by countries	591 913 919	Faunas insular
325 093	in anc countries	376 93 99	Female educ
325 4 9	mod "	631 8193-9	Fertilizers
	(see note in Tables)	780 793 799	Festivals music
923 83 89	Commerce biog of	336 4 9	Finance pub
780 793 799	Competitions mus c	923 33 39	Financiers lives
342 3 9	Constitutional law	581 913 919	Floras insular
641 593 599	Cookery	784 493 499	Folksongs
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338-5593-9	Crses	634 9253 9	Forest policy
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614 123 129	Deaths and death rates	027 03 09	General lbs hist reports
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338 5793-9	Depressions		

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912 3 9	maps	621 13294 99	Locomotives
355 473 479	mil	371 42694 99	Manual training
554 559	Geology	912 3 9	Maps
354 3 9	Government admin	940 4754 9	Medical dept Eur w (1914 19)
	for US see	370 714 719	Meetings, teachers
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331 623 679	Immigrant labor	923 53 59	Naval biog
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368 94 99	Insurance	328 4 9	Parliamentary bodies
373 4 9	Intermed ate ed ic	329 94 99	Parties polit for US see 329 1 8
973 43 49	Judges lives	929 72 79	Peerage nobility etc
923 13 19	Kings lives	923 63 69	Philanthropists lives
331 193 199	Labor and capital	912 3 9	Plans of cities etc.
631 493 499	Lands for cultivation	581 93 99	Plants geog distrib
323 13 19	Languages internal rela	638 13293 99	nectariferous
923 43 49	Law biog	363 93 99	Political ass ns
347 3 9	constit	911 3 9	div growth & changes
349 3 9	foreign	923 33 39	econ b og
373 613 619	Laws citizenship	329 94 99	parties for US see 329 1 8
379 144 149	school	973 23 29	sci biog
338 93 99	Legislation indus	923 23 29	Politicians lives
021 894 899	lib		
328 4 9	Legislative bodies and annals		
923 23 29	Legislators lives		
027 03 09	Libraries gen hist re ports etc		

972	Preachers' lives (see note in Tables)	335 93 99	Socialist communities
373 4 9	Preparatory schools	267 21 23	Societies relig of men (see note in Tables)
923 13 19	Presidents' lives	366 93 99	secret
625 13 19	Printing hist of	027 23 29	Society libs
365 93 99	Prisons	631 493 499	Soil, arable
027 13 19	Private libs	923 53 59	Soldiers' lives
373 4 9	schools 2dary	784 493 499	Songs, folk
027 23 29	Proprietary libs	784 7193-9	nat l
027 43 49	Public libs	179 4 9	State educ
379 4 9	school syst	027 53 59	libs
015 3 9	Publishers' lists	923 23 29	Statesmen's lives
655 43 49	Publishing hist of	314 319	Statistics
923 13 19	Queens' lives	311 39	, official
323 13 19	Races internal rela	331 89293 99	Strikes
572 93 99	of men geog dis	722-724	Styles archi
	trib		(see note in Tables)
923 83 89	Railroad officials' lives	027 33 39	Subscription libs
027 43 49	Rate supported libs	324 4 9	Suffrage
027 93 99	Reading rooms free	323 73 79	Teachers' lives
338 5793 9	Recessions	607 4 9	Technical schools
364 93 99	Reformatory instit	207 3 9	Theologic schools
327 3 9	Relations foreign	027 43 49	Town libs pub
274 279	Religious hist Chr	015 3 9	Trade catalogs publ
339 493 499	Resources, nat	914-919	Travel descr
973 13 19	Rulers, chief lives	508 4 9	sci
922 1 8	Saints' lives chl	341 24 29	Treaties texts and hist
027 873 829	School hl's	331 137793 799	Unemployment
923 73 79	officers' lives	378 4 98	Universities 1st reports etc
374 44 49	Schools corre pondence	027 73 79	University libs
370 734 732	normal	634 853 859	Vinifera vitis
373 4 9	priv 2dary	634 841094-099	Amer hybrids
379 4 9	pub syst	371 42694 99	Vocational training
508 4 9	Scientific trav	374 4 9	Voting
734 4 9	Sculpture medieval	331 7613 9	Wage laws
735 4 9	mod	331 293 299	Wages
366 93 99	Secret soc	940 47,84 89	Welfare wk Eur w (1914 19) by country
781 1 269 8	Sects Chr	940 47794 99	in "
	(see note in Tables)	376 93 99	Woman's educ
373 4 9	Sem names 2dary educ	331 8193 9	Work duration econ
923 53 59	Service civ long	26, 394 399	YWCA
326 93 99	Slavery hist	267 594 599	YWCA
167 93 99	Social clubs	591 93 99	Zoology geog
913-919	life & customs		

Table 2 — Uniform subdivisions

The following subdivisions introduced by 0 00 or 000 may be annex to the number for any subject if 0 or 00 divisions are not already specifically provided under that subject. If a 0 or 00 division has been thus used in the main tables a corresponding extra 0 or 00 must be introduced before the significant digits 1-9 of form divisions here given. e.g. 352 005 represents in main tables Municipal civil service and a periodical on municipal government will be 352 0095 and not corresponding to usual procedure 352 05 which represents as indicated in main tables local government in Asia. Similarly essays on Italian history (where only a single 0 is printed in the main tables) would be 945 004 not 945 04 which represents Age of the communes.

While variation in number of 0's used in different parts of the Classification to designate features provided for in these tables of common subdivisions may at first sight seem confusing there need be no difficulty if the classifier will when 1 of these tables is to be applied see whether a 0 or 00 has or has not already been attached to the number for the subject.

If preferred letters may be substituted for 0's used in tables. As a result of careful study the following letters are suggested as bringing about by alphabetic arrangement a desirable order: d (language dialect) f (form) k (time chronology) p (place) r (relation) v (newpoint) for bibliographic signs used in C D see Introduction p 40-43.

0 Form divisions

Including subdivisions derived mainly from C D

For further subdivisions peculiar to special subjects see those subjects in main classification

- 01 Philosophy Theory
- 011 General conception
 - Definition nature and character origin limits and extent purpose principles plan
- 012 Classification
 - Divisions of the subject and their interrelations
- 013 Value Importance Usefulness
- 014 Language
 - Nomenclature terminology etymology synonyms notations and symbols abbreviations
 - For discussions for dictionaries and glossaries see 03
- 2 Etymology
- 3 Scientific
 - 32 Names of genera, species etc
 - 33 Technical terms organs functions, processes etc
- 4 Popular
- 8 Systems of notation symbols abbreviations etc.
- 015 Theories based on the pure sciences
 - Divided like 500
- 016 Miscellaneous theories
- 017 Systems of units and measures peculiar to the subject
- 018 Scientific and technical methods
 - For experimental methods see 072 for teaching methods see 077
- 8 Special methods
 - Divisions appropriate to the subject for each distinct subject see that subject
- 9 Methods of collaboration and cooperation
- 02 Compendes Handbooks Outlines
 - Digests syllabuses charts manuals etc i.e. works treating the subject as a whole briefly in a systematic way
- 024 Books for special classes of persons
 - Divided like the whole classification e.g. 332 024396 Personal finance for women
- 028 Technical

- 03 Dictionaries Cyclopedias
Concordances lexicons glossaries vocabularies etc
- 04 Essays Addresses Lectures
Discourses dissertations letters papers tracts etc. i.e. works which take up various features of a subject without exhausting it
- 05 Periodicals
- 058 Annuals Directories
- 059 Almanacs
- 06 Collectiv bodies organizations, associations, societies
Histories of associations etc transactions reports charters, regulations lists of members, etc
- 061 Government organizations
Departments bureaus etc Divided like 062
- 062 Nongovernment organizations
Voluntary associations not under government control societies clubs etc.
- 1 International
- 3-9 By country
Divided like 930-999
- 063 Congresses Conferences Temporary organizations
Divided like 062
- 064 Exhibits
Class here only material distinctly illustrative of the work of the organization For exhibits chiefly of value from viewpoint of their subject see 074
- 065 Commercial establishments
See also 085 Commercial publications
- 069
- 07 Study and teaching
- 071 Schools Courses
- 1 Colleges Universities Divided like 930-999
- 2 Secondary schools
- 3 Elementary
- 4 Schools and courses for special classes of persons
Correspondence courses etc
- 5 Extension work
- 52 Institutes
- 6 Short courses
- 63 Summer
- 65 Winter
- 8 Private schools and courses
For general discussions. Schools and courses belonging to any of groups above are classed by type
- 072 Research establishments Laboratories Experimentation Experiment stations
- 074 Museums Exhibits
For exhibits showing primarily the work of an organization see 064
- 076 Problems and questions
Their solution and answers exercise books
- 1 Statements of problems and questions
- 2 Solutions of problems
- 3 Practical exercises

- 077 Pedagogic methods appropriate to special subject
See also 018 Scientific and technical methods, 072 Experimental methods
- 078 Instruments Apparatus
Equipment, implements, accessories, tools etc
- 079 Competitions Prizes Awards
Means of encouragement relative to subject medals, subsidies, scholarships, honorary titles and insignia, etc.
 - 1 Public competitions and tests
 - 3 Excursions Travels
 - 4 Subsidies for research
- 08 Polygraphy Collections Extracts
Miscellaneous etc
- 081 Individual polygraphy
Collected writings of a single author
- 082 Collectiv polygraphy
Collections of writings of several authors
 - 1 Libraries Series
 - 2 Anthologies Extracts Maxims Quotations
- 083 Receipts Formulas Tables
 - 1 Receipts
 - 2 Formulas
 - 3 Abridged formulas Mathematic formulas
 - 4 Tables
Synopsis tables
 - 5 Numeric tables
 - 6 Tables of results
 - 8 Lists Statements Inventories Catalogs of objects
See also 085 Commercial catalogs
- 084 Graphic representations other than text
Atlases portfolios albums, collections of illustrations charts, plates designs etc relating to the subject, without text or with the text secondary
- 085 Commercial publications relating to the subject
Prospectuses price lists, commercial catalogs, announcements advertisements etc.
See also 065 Commercial establishments
- 088 Vario
 - 3 Curiosa Anecdotes Jokes Jests Oddities
 - 5 Mysteries Humbugs Scientific frauds
- 089 Artificial collections Works, not serials, in course of publication
 - 1 Artificial collections
 - 2 Works, not serials, in course of publication
- 09 History and general local treatment
 - 0901 Ancient history Primitiv
 - 2 Medieval "
 - 3 Modern "
 - 4 20th century—
- 092 Biography Case histories
Biography is preferably classed in 920
- 093-099 By country
Divided like 030-090

00 Viewpoints

There is a degree of duplication of the material indicated under 001-009 (corresponding to C D's Points of view) and under 0003 (taken mainly from D C's 620 01-09 which was in print 15 years earlier) but both are here included for convenience of those who have used either 1 or the other. It is recommended that where the captions seem practically synonymous 1 of them be chosen for use and reference made from the other.

- 001 Speculative point of view
Concept on purpose statement of principles. Theoretic or experimental investigations and studies relating to an object
- 002 Point of view of realization
Fulfillment construction materials constituent elements procedure
- 003 Economic point of view
Industrial production commercial output cost and selling price
- 004 Point of view of service and use
- 005 " " " " furniture and equipment
- 006 " " " " location and establishments or quarters
Use only for details of interior organization and service. For architecture see 729
- 007 Point of view of special personnel
- 008 " " " " organization
Class here essential characteristics and general functions of the organization
- 009 Social and moral point of view

Below is given a 000 table covering (1) by use of arabic numerals what Classification Dénormale provides for by bibliographic signs indicating relation and language (place being provided for by form division 09) and (2) divisions corresponding to those on 620 01-09

000 Miscellaneous common subdivisions

- 0001 Relation
Divided like main classification
- 0002 Sources (literary, etc.) Documentation
- 0003 Administration
See note under table 00 Viewpoints
- 31 Statistics
- 32 Quantities Finance
- 33 Contracts Specifications
- 34 Designs Drawings
- 35 Executive Administrative
- 36 Working Maintenance
- 363 Personnel
May be divided like 331 As a feature of administration for viewpoint of personnel see 007
- 364 Operation Running
- 365 Regulation Control
See note under 00037
- 367 Repairs Renewals
Administrative point of view a specific repair belongs with part repaired
- 368 Testing
- 37 Laws Regulations
Class here regulations in general for regulation as a feature of maintenance see 000365
- 38 Patents
- 39 Reports
- 0004 Language in which written
Divided like 400
- 0005-7 Reserved for special analytic subdivisions applicable to individual subjects

Index to supplementary Table 2, uniform subdivisions

Abbreviations	—0148	Colleges and universities	—0711
Academies, soc , etc	—06	Colloquialisms	—0144
Accessories	—078	Commercial	
Accounting	—00032	cat , circulars etc.	—085
Acts of societies, etc	—06	establishments	—065
Addresses	—04	output viewpoint	—003
Administration	—0003	publications	—085
Administrative functions	—00035	Commissions, committees,	
Adult education	—0714	bureaus, etc	—06
Advertizements commerc.	—085	Compendis	—02
Albums	—084	Competitions	—079
Almanacs and calendars	—059	Conception theory	—011
Ancient hist	—0901	viewpoint	—001
Anecdotes	—0883	Concordances	—03
Announcements commerc	—085	Conferences	—063
Annuals	—058	Congresses	—063
Answers to problems	—0762	Constituent elements	
Anthologies	—0822	viewpoint	—002
Antiquities	—0901	Constitutions and bylaws of	
Apparatus	—078	ass'ns, soc , etc	—06
Associations	—06	Construction viewpoint	—002
Atlases	—084	Consultations	—0189
Awards	—079	Contests	—079
Biography	—092	Continuations non serial	—0892
Blanks	—083	Contracts	—00033
Blueprints and plans	—00034	Control admin	—000365
Bounties incentive	—079	Conventions	—063
Briefs	—02	Cooperation	—0189
Bureaus, ass'ns, etc	—06	Corporations	—06
Bylaws and regulations of		Correspondence	
ass'ns, soc , etc	—06	courses & schools	—0714
Calendars and almanacs	—059	letters	—04
Case histories	—092	Cost admin.	—00032
Catalogs and lists	—0838	viewpoint	—003
Catalogs commerc.	—085	Courses of instruction	—071
Character	—011	private	—0718
Charlatany	—0885	short	—0716
Charters of ass'ns, soc , etc	—06	Curiousa	—0883
Charts illus	—084	Cyclopedias	—03
outlines	—02	Debates	—04
Chronicles, history	—09	Definition	—011
Classification	—012	Departments, governmental	—061
Clinics	—072	Derivation of terms	—0142
Clippings collection of	—0822	Des gns	—00034
Clubs	—062	collection of	—084
Collaboration	—0189	Deterioration	—000364
Collected works & collections	—08	Dictionaries, spec	—03
Collections artificial	—0891	Digests	—02
Collective bodies	—06	Directories	—058

Discourses	—04	Furniture and equip	
Disputations	—04	viewpoint	—005
Dissertations	—04	Genera, terminol of	—01432
Distribution, geographic	—093-099	Geographic distribution	—093-099
Divisions	—012	Glossaries	—03
Documentation	—0002	Government control & regula.	—00037
Dossiers	—08	Governmental bureaus, depts,	
Drawings	—00034	etc.	—061
collection of .	—084	Grants, incentive	—079
Economic viewpoint	—003	Graphic representation	—084
Education	—07	Guide books	—02
Elementary schools	—0713	Handbooks	—02
Elements viewpoint	—002	Highschools	—0712
Encouragement, means of	—079	History	—09
Encyclopedias, spec	—03	Hoaxes	—0885
Epitomes	—02	Honorary degrees, titles &	
Equipment	—078	insignia	—079
and furniture viewpoint	—005	Humbugs	—0885
Essays	—04	Humor and curiosa	—0883
Establishments and quarters		Iconography	—084
viewpoint	—006	Illustrations	—084
Esthetics	—01	Implements	—078
Ethics, professional	—069	Importance	—013
Etymology, nomenclative	—0142	Impostures	—0885
Examinations, competitive	—0791	Incentives	—079
Excursions, incentive	—0793	Industrial production	
Executive manage	—00035	viewpoint	—003
Exercise books	—076	Informational sources	—0002
Exercises, practical	—0765	Insignia, honorary incentive	—079
Exhibits	—074	Institutes	—07152
of activities, of ass'ns		Instruction	—07
soc , etc.	—064	Instruments	—078
Experiment stations	—072	Interior organiza & service	—006
Experimental meth. viewpoint	—001	International ass'ns, soc., etc	—0621
Experimentation and its		Interrelations	
establishments	—072	between subjects	—0001
Expositions	—064	classification	—012
Extension courses	—0715	Inventories	—0838
Extent	—011	Investigations, theoretic &	
Extracts	—0822	exper viewpoint	—001
Fairs	—064	Jests	—0883
Fieldwork	—072	Jokes	—0883
Finance	—00032	Journals, magazines, etc.	—05
Forms	—083	Laboratories and work in	—072
Formularies	—0832-3	Language	
Formulas	—0832-3	distinctive of subject	—014
Foundations, ass'ns, etc.	—06	in which written	—0004
Frauds	—0885	popular	—0144
Fulfilment viewpoint	—002	sci.	—0143
Functioning and operation	—000364	Law and principles	—01
Functions, terminol of	—01433	Laws and regulations	—00037

Lectures	—04	Organizations, ass'ns, etc.	—06
Legislation and laws	—00037	temporary	—063
Letters	—04	Organs, terminol. of	—01433
Lexicons	—03	Origin	—011
Libraries as series	—0821	Outlines	—02
Limits	—011	Output, commerc. viewpoint	—003
Lists and catalogs	—0338	Pamphlets	—04
of members	—06	Papers and essays	—04
Literary addresses	—04	Patents	—00038
Local ass'ns, soc., etc.	—0523-9	Pedagogic methods	—077
treatment	—093-099	Periodicals	—05
Location and quarters		Personnel admin.	—000,6
viewpoint	—006	viewpoint	—007
Magazines	—05	Persons connected with subject	—069
Maintenance and working	—00036	Philosophy	—01
Management	—00035	Photographs, collections of	—084
Manuals	—02	Pictures, collections of	—084
Materials viewpoint	—002	Places viewpoint	—006
Mathematical formulas	—0833	Plan, gen.	—011
Maxima	—0822	Plans and blueprints	—00034
Measures peculiar to subject	—017	Plates, illus.	—084
Medals, honorific	—079	Polygraphy	—08
Medieval hist.	—0902	collective	—082
Members, lists of	—06	individual	—081
Methods, cooperative	—0189	Portfolios, illus.	—084
experimental	—072	Practical exercises	—0765
of studying	—07	Price lists	—085
of teaching	—077	Prices admin.	—00032
sci. & tech.	—018	viewpoint	—003
special	—0188	Primitive hist.	—0901
Miscellanies	—08	Principles theory	—011
Modern hist.	—0903	viewpoint	—001
Moral viewpoint	—009	Private institutions, soc., etc.	—062
Motivation	—079	Prizes	—079
Museums	—074	Problems	—076
Mysteries	—0885	Procedure viewpoint	—002
Names, sci., of species, etc.	—01432	Proceedings of ass'ns, soc., etc.	—06
tech.	—01433	Processes, terminol. of	—01433
National ass'ns, soc., etc.	—0523-9	Production, indus.	
Nature, gen.	—011	viewpoint	—003
Nomenclature	—014	Professional educ.	—07
Notation syst.	—0148	people	—069
Numeric tables	—0835	Prospectuses	—085
Observatories	—072	Publications	
Oddities	—0883	commere.	—085
Official bureaus, depts, etc.	—061	gen., of acad., soc., etc.	—06
Operation and functioning	—000364	Purpose	—011
Orations	—04	viewpoint	—001
Organization		Quantities	—00032
and admin. viewpoint	—008	Quarters and location	
service interior		viewpoint	—006
viewpoint	—006	Questions	—076

Quotations	—0822	Statutes	—00037
Realization viewpoint	—002	Study	—07
Receipts	—0831	theor & exper viewpoint	—001
Records, admin.	—00039	Subsidies incentive	—079
Regional ass'ns, soc, etc.	—0523-9	Subventions, incentive	—079
Regulation admin.	—000356	Summer courses	—07163
Regulations and rules	—00037	Supervision, admin	—00035
of ass'ns, soc, etc.	—05	Supplies viewpoint	—005
Relation between subjects	—0001	Syllabuses	—02
Renewals and repairs admin.	—000367	Symbols	—0148
Reports, admin	—00039	Synonyms, nomenclative	—014
of ass'ns, soc., etc.	—05	Synopses	—02
Research		Synoptic tables	—0834
and its establishments	—072	Tables	—0834-6
subsidies for	—0794	Teaching	—07
Results tables of	—0836	Technical educ.	—07
Reviews, maga ins, etc.	—05	meth.	—018
Rules and regula	—00037	terms	—01433
of ass'ns, soc., etc.	—05	Temporary organizations	—053
Running and functioning	—000364	Terminology	—014
Satires	—0883	popular	—0144
Scholarships	—079	Tests, admin. of	—000368
Schools	—071	pub.	—0791
private	—0718	Textbooks	—02
Scientific management	—00035	Theories	
meth.	—018	based on the pure sci.	—015
terms	—0143	misc.	—016
Scope	—011	Theory	—01
Scrapbooks	—0822	Titles, honorary, incentive	—079
pictorial	—084	Tools	—078
Secondary schools	—0712	Tracts	—04
Seminaries	—071	Training	—07
Senals	—05	Transactions of acad, soc, etc.	—06
Series and libraries	—0821	Travels, incentive	—0793
Service and organiza,		Trivia	—0883
interior viewpoint	—006	20th century—	—0904
Serviceability and use		Units peculiar to subject	—017
viewpoint	—004	Universities and colleges	—0711
Sketches lit	—04	Use and serviceability	
Slang	—0144	viewpoint	—004
Social viewpoint	—009	Usefulness	—013
Societies	—05	Utality	—013
Solutions of problems	—0762	Vacation courses	—0716
Sources of information	—0002	Value	—013
Species, terminol. of	—01432	Varia	—088
Specifications	—00033	Vocabularies	—03
Speculative point of view	—001	Voluntary ass'ns, soc., etc.	—062
Statements, cat. & lists	—0838	Winter courses	—07165
Statistics	—00031	Working and maintenance	—00036
		Yearbooks	—058

Table 3—Languages and Literatures

The table below includes all individual languages and literatures given distinct numbers in the classification, but not some groups not yet subdivided (e.g. 497 Languages and 897 Literatures of North American Indians) nor some languages and literatures named as part of a group which may be subdivided later.

Any language in this table may be subdivided like 420, English. Any philologic topic in the index may be transferred to another language by replacing the initial figures of the language as found in this table by those of the 2d language also found here e.g. Syntax English language in the index is 425 2. In this table English is 42 and French is 44 replacing the 42 by 44 gives 445 2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492 452. A 3d way to subdivide the language is to prefix the language figures as given in this table to the philologic numbers given in Table 4. All 3 methods give the same result.

The form divisions of English literature 1 Poetry 2 Drama 3 Fiction 4 Essays 5 Oratory 6 Letters 7 Satire and Humor 8 Miscellany may be used to subdivide any of the literatures in the following table except Anglo-Saxon, Latin and Greek, for which special literature tables are provided under 829 870 and 880 respectively and any division of English literature in the index referring to this table may be used in subdividing another literature by replacing the initial figures 82 (denoting English) by the figures of the 2d literature as given in this table. Thus Ballads English literature, in the index at 821 04 and in this table Spanish is 86 therefore 861 04 is Spanish ballads 891 7 is Russian and 891 7104 is Russian ballads. Any form of any literature may be divided by period like the poetry of that same literature e.g. 847 may be divided by period like 841.

491 58	Afghani	891 58	495 8	Burmese	895 8
492 8	African Semitic	892 8	496 2	Bushmen, African	896 2
439 36	Afrikaans	839 36	449 9	Catalan	849 9
493 56	Agau	893 56	492 2	Chaldee	892 2
491 991	Albanian	891 991	494 521	Cheremissian	894 521
492 8	Amharic	892 8	495 1	Chinese	895 1
494 813701	Andhra	894 813	494 543	Chadic	894 543
429	Anglo Saxon	see note	491 81701	Church Slavonic	891 81
495 92	Annamite	895 92	493 2	Coptic	893 2
492 7	Arabic	892 7	491 67	Cornish	891 67
492 1	Aramaic	892 1	491 83	Croatian	891 83
491 54	Armenian	891 54	492 19	Cuneiform	892 19
491 68	Armenic	891 68	491 65	Cymric group	891 65
492 19	Assyrian	892 19	491 66	" or Welsh	891 66
492 1	Assyro-Aramaic	892 1	491 86	Czech Bohemian	891 86
491 52	Avestan, Zend	891 52	439 81	Danish	839 81
492 19	Babylonian	892 19	493 55	Dankali	893 55
491 52	Bactrian Old	891 52	439 4	Deutsch, Platt	839 4
499 223	Bali	899 223	494 322	Djagataic	894 322
491 591	Baluchi	891 591	439 31	Dutch	839 31
491 68	Bas Breton	891 68	499 227	Dyak	899 227
491 69	Basque	891 69	493 1	Egyptian Old	893 1
499 226	Batak	899 226	42	English	82
493 53	Bedja (Bedouin)	893 53	427 02	" Middle	82
491 44	Bengali	891 44	427 01	" Old	82
491 86	Bohemian	891 86	491 61	Erse Gaelic group	891 61
491 68	Breton	891 68	491 63	" Gaelic	891 63
491 65	Brythonic	891 65	408 92	Esperanto	808 92
491 81	Bulgarian	891 81	494 545	Esthonian	894 545
494 23	Buriat	894 23	492 8	Ethiopic, Semitic	892 8

439 6	Faroese	839 6	494.814	Kannada	894.814
494.541	Finnish	894.541	494 542	Karélian	894 542
439 32	Flemish	839 32	494.824	Khond	894.824
499 212	Formosan	899 212	494 34	Kirghiz	894 34
44	French	84	494.816	Kodagu	894 816
447 01	" Old	84	495 7	Korean	895 7
439 2	Frisian	839 2	494.821	Kôta	894 821
491 61	Gadhelic group	891 61	494.824	Kou	894 824
491 63	Gaelic or Scotch	891 63	494 544	Krévin	894 544
469 9	Galician	869 9	491 83	Kroatian	891 83
493 52	Galla	893 52	491 57	Kurdish	891 57
499 9621	Georgian	899 9621		Kymric, <i>see</i> Cymric	
43	German	83	459 9	Ladin	859 9
439 4	" Low, Platt-		499 213	Ladrones	899 213
	deutsch	839 4	494 12	Lamut	894 12
439 1	" " Western		494 55	Lapp	894.55
	Germanic	839 1	47	Latin	<i>see</i> note
437 02	" Middle High	83	499 9624	Lazistan	899 9624
437 01	" Old High	83	491 93	Lettish	891 93
491 61	Goidelic group	891 61	491 92	Lithuanian	891 92
494 823	Gônd	894 823	494 546	Livonian	894 546
439 9	Gothic	839 9	491 88	Lusatian	891 88
48	Greek	<i>see</i> note	499 214	Madagascar	899 214
491.47	Gujerati	891 47	499 224	Maduran	899 224
492 4	Hebrew	892 4	494 511	Magyar	894.511
492 9	Humyartie	892 9	499 228	Makassar	899 228
491 43	Hindi	891 43	499 214	Malagasy	899 214
491 1	Hindu group	891 1	499 221	Malay	899 221
491 43	Hindustani	891 43	494 812	Malayalam	894 812
494 513	Hongro-ostiak	894.513	494 13	Manchu	894.13
496.1	Hottentot	896.1	491 64	Manx	891 64
494.511	Hungarian	894.511	491 46	Marathi	891 46
491 531	Huzwaresh	891 531	499 213	Marianas	899 213
439 6	Icelandic	839 6	492 9	Minasian	892 9
491 1	Indic group	891 1	499 9623	Mingrelian	899 9623
491 3	" Middle	891 3	494.21	Mongol Eastern	894 21
491 2	" Old	891 2	491 871	Moravian	891 871
491 52	Iranic, East	891 52	494 522	Mordvinian	894.522
491 51	" West	891 51	499 11	Negrito	899 11
491 62	Irish	891 62	491 55	Neopersian	891 55
45	Italian	85	492 19	Nineveh cuneiform	892 19
494.322	Jagataic	894 322	494.33	Nogair	894.33
495 6	Japanese	895 6	439 5	Norse group	839 5
499 222	Javanese	899 222	439 6	" Old	839 6
492 4	Jewish (Hebrew)	892 4	439 82	Norwegian (Modern	
494.22	Kalmuk	894 22		Norse)	839 82
494.422	Kamassin	894 422	494.826	Orâon	894 826
494.814	Kanarese	894.814	491 45	Orissa	891 45
			494.35	Osmanli	894 35

1	Letters, alphabet.	61	Quantity, prosody.
3	Lexicography.	86	Readers, elementary
3	Lexicons	87	" " selections.
17	Manuscripts	23	Reduplication, derivation
65	Meters, prosody.	27	Relativ pronouns, "
825	Modifications, special.	57	" " syntax.
28	Moods, signs of, derivation.	66	Rhymes, prosody
58	" " syntax.	66	Rhyming dictionary
51	Morphology.	8	School books and texts
25	Noun forms, derivation.	87	Selections, readers.
515	Nouns, inflection.	54	Sentences of particular form
55	" " syntax.	709	Slang.
25	Number, signs of, derivation	81	Spelling books
701	Old forms of language	14	" " reform
21	Origin of language.	67	Strophe, prosody.
15	Orthoepy.	22	Suffixes, derivation.
1	Orthography.	4	Synonyms
17	Palæography.	52	Syntax
52	Parsing.	28	Tense signs, derivation
29	Particles, derivation.	58	" " syntax.
59	" " syntax	8	Text books
27	Personal pronouns, derivation	824	" " " for foreigners
14	Phonetic spelling	68	" " " writing verse.
82	Phrase book.	88	Texts of individual authors.
27	Possessive pronouns derivation.	12	Umlaut
57	" " " syntax.	83	Use of words
22	Prefixes, derivation.	28	Verbal forms, derivation
29	Prepositions. "	518	Verbs, inflection.
59	" " syntax.	58	" " syntax.
27	Pronominal forms derivation	68	Verse, text books for writing
517	Pronouns, inflection	62	Versification
57	" " syntax.	28	Voice signs, derivation
15	Pronunciation	12	Vowels
82	Prose composition.	83	Vulgarisms
6	Prosody	53	Words, arrangement of
7	Provincialisms.	2	" " etymology.
19	Punctuation.	83	" " use of

For Biscoe time and Olin book number schemes and Special author tables Shakespeare, Milton, etc. see editions 11, 12 and 13 See also Bertha R Barden, *Book numbers*, A.L.A., 1937

582 Systematic and taxonomic botany

Abridged from Universal Decimal Classification, English ed., 1939. See also 561 Paleobotany. The following classification follows that of the 1936 edition of Engler Diels' 'Syllabus der pflanzenfamilien'.

582 2-3		Cryptogamia	Flowerless plants	Spore plants
582 21		Cryptogamia in general		
.22		Thallophyta		
.23		Schizophyta		
.231		Schizomycetes	Bacteria	
.232		Schizophyceae	Phycobryomycetes	Cyanophyceae
			Oscillatoraceae (Lyngbyaceae), Scytonemataceae, Stigonemataceae (Sirospionaceae), Nostocaceae, Rivulariaceae, Chroococcaceae, Chamaesiphonaceae, etc.	
.24		Myxomycetes	Myxothallophyta	Myxozoa
		Slime fungi		Phytosarcodina
.241		Acrasiales	.242 Hydromyces	
			Plakopodaceae, Vampyrellaceae	
.244		Myxogasteres		
2		Exosporales	Ectosporeae	Ceratiomycaceae
3		Endosporeae		
4		Cniriales	Cniriacae	
6		Entidiales	Reticulariaceae, Tubiferaceae, Lycogalaceae, etc.	
.2452		Liceales	Liceaceae, Listerellaceae	
3		Stemonitales	Amaurochaetaceae, Stemonitaceae, Colodermaceae, Ectonosteleaceae, etc.	
5		Physarales	Physaraceae, Didymiaceae	
6		Margaritales	Margaritaceae	
8		Trichiales	Arctynaceae, Trichaceae	
.25		Flagellae	Flagellates	
.251		Flagellatae		
1		Pantostomatales	Holomastigaceae, Rhizomastigaceae	
2		Distomatales (Diatomatales)	Distomataceae (Diatomataceae)	
3		Protomastigales	Oicomonadaceae, Bicocaceae, Craspedomonadaceae, Phalansteriaceae, Monadaceae, Bodonaceae, Amphimonadaceae, Trimastigaceae, Tetramitaceae, etc.	
4		Chrysomonadales	Chromulnaceae, Hymenomonadaceae, Ochromonadaceae, etc.	
5		Cryptomonadales	Cryptomonadaceae, etc.	
6		Chloromonadales	Chloromonadaceae, etc.	
7		Euglenales	Euglenaceae, Astasiaceae, Peranemataceae	
.252		Dinoflagellatae	Pendinales	Pendineae
				Cilioflagellatae
.253		Adiniferidae		
1		Athecatales	Athecatoideae	
2		Thecatales	Thecatoidae	Prorocentrinae; Prorocentraceae, etc.

- 582 254 Diniferidea
- 1 Gymnodimales Gymnodinioidae
- 2 Protodiniferaceae 3 Gymnodiniaceae 4 Polykrikaceae
5 Noctilucae 6 Pouchetiaceae, 7 Blastodiniaceae
- 9 Peridinales Peridinioidae Peridiniaceae
- 255 Doubtful Dinoflagellatae Cystodiniidae Amphilotheiidae,
Cystoflagellata etc.
- 258 Silicoflagellatae
- 1 Siphonotestales Dictyochaceae
- 2 Stereotestales Ebnaceae
- 259 Heterocontae Heterochloridaceae, Botryococcaceae Chloro
botryaceae Chlorotheciaceae Ophiocytaceae Tribonemaceae
Botrydiaceae etc
- 26 Algae Seaweeds
- 261 Bacillariophyta (Diatomeae) Bacillariales
- 1 Centricae Distaceae Solenaceae Biddulphiaceae Ruti
lariaceae etc
- 5 Pennales Pennatae
Fragilariaceae (Diatomaceae) Eunotiaceae Achnanthaceae
Naviculaceae Epithemiaceae Nitzschiaceae etc
- 262 Conjugatae
- 2 Desmidiiales Desmids Mesotaeniaceae Desmidiaceae etc
- 3 Zygnematales Zygnemataceae, Mesocarpaceae etc
- 263 Chlorophyceae Green algae
- 264 Protococcales
- 1 Volvocales Chlamydomonaceae Volvocaceae etc
- 4 Euprotococcales
Tetrasporaceae Chlorosphaeraceae Pleurococcaceae
Protococcaceae Oocystaceae, Hydrodictyaceae Colla
straceae Protosphaeraceae etc
- 265 Ulotrichales (Confervales)
- Ulvaceae Ulotrichaceae Blastosporaceae Wittrockel
laceae Chaetophoraceae Trentepohliaceae Chrookpi
daceae Chaetopeltidaceae Aphanochaetaceae Coleo
chaetaceae Cylindrocapsacea Oodogoniaceae etc
- 266 Siphonocladales
- Valoniaceae Siphonocladaceae Cladophoraceae Dasy
cladaceae Sphaeropleaceae etc
- 267 Siphonales
- Bryopsisaceae Derbesiaceae Caulerpaceae Phyllosiphon
aceae Codiaceae Vaucheriaeae
- 271 Charophyta Stoneworts Characeae etc
- 272 Phaeophyceae Brown algae
- Ectocarpales
- Ectocarpaceae Mesoglossaceae Corynophylloaceae Myxo
nemataceae Lichenaceae Spermatocladaceae Desmari
aceae Sporocladaceae Punctariaceae Scytosiphonaceae
Dactyosiphonaceae Asperococcaceae Hydroclathraceae
Giffordaceae etc
- 2 Sphaecelariales Sphaecelariaceae
- 3 Cutleriales Cutleriaceae etc
- 4 Dictyotales Dictyotaceae
- 46 Laminariales Laminariaceae Chordaceae etc.
- 6 Tilopteridales Tilopteridaceae, Chonostocarpaceae
- 7 Fucales Durvilleaceae Fucaceae Nothaceae etc.

- 582.273 Rhodophyceae Red algae
 274 Bangiales Bangiaceae, Rhodochaetaceae, Compsopogonaceae
 275 Florideae
 1 Nemalionales Gelidiales
 12 Nemalionales Lemnaceae, Helminthocladiaceae,
 Thoreaceae, Chatangiaceae
 17 Gelidiales Gelidiaceae, Wrangelhaceae, etc.
 2 Cryptonemiales
 Gloiosiphoniaceae, Grateloupiceae, Dumontiaceae,
 Rhizophylidaceae, Squamariaceae, Corallinaceae, etc.
 3 Gigartinales
 Nemastomaceae, Plocamiaceae, Sphaerococcaceae, Rho-
 dophylidaceae, Gigartinaceae, Phyllophoraceae, etc.
 4 Rhodymeniales Rhodymeniaceae
 5 Ceramiales Ceramiaceae, Rhodomelaceae, Delesseriaceae
 28 Eumycetes True fungi Mycology
 281 Phycomycetes Algal fungi
 1 Oomycetes
 11 Monoblephandales Monoblepharidaceae
 Blastocladiaceae, Monoblepharidaceae
 12 Saprolegniales Saprolegniaceae
 Saprolegniaceae, Leptomitaceae
 13 Ancylistales Ancylistaceae
 Lagenidiaceae, Ancylistaceae
 14 Peronosporales Peronosporaceae
 Albuginaceae, Peronosporaceae, Pythiaceae
 2 Zygomycetes
 21 Mucorales Mucoraceae Mold fungi
 Mucoraceae, Choanephoraceae, Mortierellaceae, Chaeto-
 cladiaceae, Piptocephalidaceae
 22 Entomophthorales Entomophthoraceae Entomophthoraceae
 23 Endogonales Endogonaceae Endogonaceae
 24 Basidiobolales Basidiobolaceae Basidiobolaceae
 25 Chytridiales Chytridaceae
 Cladochytraceae, Hypochytridaceae, Rhizidiaceae, Olpi-
 diaceae, Synchronaceae, Plasmodiophoraceae, etc.
 282 Ascomycetes
 0 Spermophthorales Spermophthoraceae
 1 Euascales
 11 Perisporineae Erysiphaceae, Paropsidaceae, Perisporaceae,
 Microthyriaceae, etc.
 12 Plectascineae
 Gymnoascaceae, Aspergillaceae, Onygenaceae, Tricho-
 comaceae, Elaphomyetaceae, Terfeziaceae, Myrian-
 giaceae, etc.
 13 Phacidineae Stictidaceae, Tryblidaceae, Phacidaceae
 14 Protocalicaceae Protocalicaceae
 15 Hysterineae Hypodermataceae, Dichaenaceae, Ostropaceae,
 Hysteriaceae, etc.
 16 Pezizaceae
 Pyrenomataceae, Pezizaceae, Ascobolaceae, Helotiaceae,
 Mollisiaceae, Celidiaceae, Patellariaceae, Cenangiaceae,
 Cordieriaceae, Cyttaraceae

- 582 28217 Helvellineae Rhiziniaceae, Geoglossaceae, Helvellaceae
 18 Tuberineae Truffles Eutuberaceae, Balsarniaceae, etc.
 19 Pyrenomycetinae Pyrenomycetes
 Hypocreaceae, Dothideaceae, Sphaeriaceae, Sordariaceae, Chaetomiaceae, Sphaeriaceae, Ceratostomataceae, Cucurbitariaceae, Coryneliaceae, Amphisphaeriaceae, Lophiostomataceae, Mycosphaerellaceae, Pleosporaceae, Massariaceae, Gnomoniaceae, Clypeosphaeriaceae, Valisaceae, Melanconidaceae, Diatrypaeae, Melogrammataceae, Xylariaceae, etc.
 2 Hemiascomycetes
 21 Protodiscineae Exoasteeae Taphrinaceae, Ascocorticiaceae, etc.
 22 Protoascineae Eremascaceae Dipodascaceae, Endomycetaceae, etc.
 23 Saccharomycetinae Saccharomycetaceae Yeasts
 3 Laboulbeniales Peyntschuelliaceae, Laboulbeniaceae, Ceratomycetaceae
 283 Protomycetes Protomycetinae Protomycetaceae
 284 Basidiomycetes Carposporeae
 285 Hembasidiu Hembasidiomycetes
 1 Ustilaginales Smut fungi Ustilaginaceae, Tilletiaceae
 2 Uredinales Rust fungi
 Pucciniaceae, Endophyllaceae, Schizosporaceae, Cronartiaceae, Coleosporiaceae, Melampsoraceae, etc.
 .287 Eubasidiu
 1 Protobasidiomycetes
 11 Auricularineae Auriculariaceae, Pilacraceae
 12 Tremellineae Sirobasidiaceae, Tremellaceae, Hyalomaceae
 2 Autobasidiomycetes Gasteromycetes
 21 Dacryomycetinae Dacryomycetaceae
 22 Exobasiduneae Exobasidiaceae, etc.
 23 Hymenomycetinae Hymenomycetes
 Tulasnellaceae, Corticiaceae, Thelephoraceae, Clavariaceae, Hydneae, Polyporaceae, Agaricaceae
 24 Sclerodermatineae (Plectobasiduneae)
 Podaxaceae, Sclerodermataceae, Calostomataceae, Sphaerobolaceae, Tulostomataceae
 247 Protogastrineae 248 Protogastraceae
 25 Hymenogastrineae Hymenogastraceae
 26 Lycoperdineae Puffballs Lycoperdaceae, etc.
 27 Nidularineae Nidulariaceae
 28 Phallineae Clathraceae, Phallaceae (stinkhorn fungi)
 .288 Fungi imperfecti
 1 Conidic
 2 Sphaeropsidales Sphaerioidaceae, Nectrioidaceae, Leptostromataceae, Excupulaceae
 3 Melanconiales Melanconiaceae
 4 Hyphomycetes Mucedinaceae, Dematiaceae, Stilbaceae, Tuberculariaceae
 5 Mycelic
 .29 Lichenes Lichens
 290 Phycolichenes Geosiphonaceae

- 582 291 Ascolichenes
 292 Pyrenocarpeae Angiocarpae
 Monolaceae, Epigloeaceae Verrucariaceae, Dermatocar
 paceae, Pyrenothamniaceae, Pyrenulaceae, Phyllopyreni
 aceae, Trypetheliaceae, Paratheliaceae, Astrotheliaceae,
 Strigulaceae, Pyrenidiaceae, Mycoporaceae etc
 293 Gymnocarpeae Discolichenes Gelatinosae, Byssaceae
 1 Coniocarpineae Caliciaceae, Cypheliaceae, Sphaerophoraceae
 2 Graphidinae
 Arthoniaceae, Graphidaceae, Chiodectonaceae, Dir
 naceae, Roccellaceae
 3 Cyclocarpineae
 Lecanactidaceae, Pilocarpaceae, Chrysotrichaceae, The
 lotremataceae, Diploschistaceae, Ectolechiaceae, Gya
 lectaceae Coenogoniaceae, Lecideaceae, Phyllopsoraceae,
 Cladoniaceae, Gyrophoraceae, Acarosporaceae, Ephe
 baceae, Pyrenopsidaceae, Lichinaceae Collembataceae,
 Heppiaceae, Pannariaceae, Stictaceae, Peltigeraceae
 Pertusariaceae, Lecanoraceae, Parmeliaceae, Usneaceae,
 Caloplacaceae, Theloschistaceae, Buelliaaceae, Physcia
 ceae, etc.
 296 Basidiolichenes Hymenolichenes, etc.
- 582.31 Archegoniatae Embryophyta asiphonogama
- 32 Bryophyta (Muscineae) Mosses and liverworts
 33 Hepaticae Liverworts
 331 Marchantiales
 Marchantiaceae Corsiniaceae, Targioniaceae, Marchanti
 oideae, Ricciaceae
 332 Anthocerotales Anthocerotaceae
 333 Jungermanniales
 Jungermanniaceae anacrogynae Sphaerocarpoideae, Riel
 loideae, Metzgerioideae Leptothecoideae, Fossombroniaceae,
 Haplomitrioideae, Jungermanniaceae acrogynae Epi
 goniantheae, Trigonanthae, Ptilidioideae Scapanoideae,
 Stephaninoideae, Pleuroziaceae, Bellmuniaceae, Jubuloideae
- 34 Musci Mosses
 341 Sphagnales Sphagnaceae Bog mosses (large)
 342 Andreaeales Andreaeaceae
 343 Bryales
 344 Eubrynales
 1 Fissidentales Fissidentaceae
 2 Dicranales
 Archidiaceae, Ditrichaceae, Bryoxiphiaceae, Seligeraceae,
 Dicranaceae, Dicnemoneaceae Pleurophascaceae, Leuco
 bryaceae etc.
 3 Pottiales Calymperaceae, Encalyptaceae, Pottiaceae, etc
 4 Grimmiiales Grimmiaceae
 5 Funariales
 Gigaspermaceae Diseliaceae, Ephemeraceae, Funari
 aceae, Ordipodiaceae, Splachnaceae
 6 Schistostegales Schistostegaceae
 7 Tetraphadales Georgiaceae

582 3448

Eubryales

Bryaceae Orthodontioideae, Bryoideae, Melchhoferi
oideae; Leptostomaceae, Mniaceae, Drepanophyllaceae,
Eustichiaceae, Sorapillaceae, Mittiaceae, Calomni
aceae, Rhizogoniaceae, Hypnodendraceae, Aulacom
niaceae, Meeseaceae, Catoscoptiaceae, Bartramia-
ceae, Spiridontaceae, Tunniaceae, etc.

9

Isobryales

Erpodiaceae, Ptychomniaceae, Orthotrichaceae, Hel
cophyllaceae, Rhacopilaceae, Fontinalaceae, Clunaci
aceae, Hedwigaceae, Cryphaeaceae, Leucodontaceae,
Cyrtopodaceae, Prionodontaceae, Ptychomniaceae, My
uriaceae, Lepyrodontaceae, Rutenbergiaceae, Trachy
podaceae, Pterobryaceae, Meteoraceae, Phyllogoniaceae
Neckeraceae, Lembophyllaceae, Echinodiaceae

94

Hookeriales Normataceae

95

Pilotrichaceae, Hookeriaceae, Hypopterygiaceae

3451

Hypnobryales

Fabroniaceae, Leskeaceae, Thuidiaceae, Amblystegiaceae,
Brachytheciaceae, Entodontaceae, Plagiotheciaceae
Sematophyllaceae, Hypnaceae, Rhytidiaceae, Hyl
comaceae, etc.

346

Buxbauminales

1

Buxbaumiales Buxbaumiaceae

2

Diphysciales Diphysciaceae

347

Polytrichinales

1

Polytrichales Polytrichaceae

2

Dawsoniales Dawsoniaceae

35

Ptetodophyta Ferns Fern like spore plants

352

Psilophytinae Psilophytales

Rhyniaceae, Psuedosporochnaceae, Asteroxylaceae

37

Articulatae

370

Protoarticulatales Hyemaceae

371

Sphenophyllales Sphenophyllaceae

372

Cheurostrobales Cheurostrobaceae

373

Pseudoborniales Pseudoborniaceae

374

Equisetales Horsetails

2

Equisetales Equisetaceae True horsetails

3

Calamitales Calamitales Calamitaceae, etc

38

Lycopodinae Lycopodiales

381

Lycopodiales ligulatae Club mosses

Lycopodiaceae (true club mosses), Cyclostigmaceae

382

Selaginellales Lycopodiales ligulatae

2

Selaginellinae Selaginellaceae

3

Lepidophytinae

4

Lepidodendraceae 5 Ulodendraceae, 6 Bothrodendraceae,

8 Sigillariaceae, 9 Pleuromiaceae

391

Psilotinae Psilotales Psilotaceae

392

Isoetinae Isoetales Isoetaceae, quillworts

394

Filicinae Filicales

Fossil ferns of uncertain relationship Tiliaceae, knor
rptendeae, Rhizomopterideae, Inversicatenales, etc

2

Lusporangiales

4

Ophioglossales Ophioglossaceae, adders tongue ferns

6

Marattiales Marattiaceae Psaroniaceae

- 582 3947 Leptosporangiatæ
- 72 Eufilicales Eufilicinae True ferns
- 73 Osmundaceae, Schizaceae, Matoniaceae, Gleicheniaceae
- 74 Hymenophyllaceae, Loxsomaceae, Cyatheaceae (tree ferns),
- 75 Dipteridaceae
- 74 Polypodiaceae, Parkeriaceae, etc.
- 75 Hydropteridales Hydropteridineae Marsiliaceae, Salviniaceae
- 582 4 Embryophyta siphonogama Phanerogamia Spermatophyta Seed plants
- 42 Gymnospermae Naked seed plants The first seed plants
- 43 Cycadofilicales Pteridospermae Fern like seed plants
- Lyginodendraceae, Medullosaceae, Cladoxylaceae, Cycadoxylaceae, Protopytiaceae, etc. Fossil plants having characteristics common to Cycadofilicales and Filicales Archaeopterides, Sphenopterides, Pecopterides, Alethopterides, Callipterides, Odontopterides, Neuropterides, Tainiopterides, Glossopterides, Megalopterides, etc.
- 44 Cycadales Cycadaceae, etc.
- 45 Bennettitales Bennettitiaceae, Nilssonniaceae, Caytoniaceae
- 46 Ginkgoales Ginkgoaceae, maidenhair trees, etc.
- 465 Cordaitales Cordaitaceae, Pityaceae, etc.
- 47 Coniferae
- Taxaceae (yews), Podocarpaceae Pterosphaceroideae, Podocarpoideae Phyllocladoideae, Araucariaceae, Cephalotaxaceae, Pinaceae (pines, firs, etc.) Abietoideae, Pinoideae, etc., Taxoalopityoideae, Taxo Thujaceae, Cupres-
- 49 Gnetales Ephedraceae, Welwitschiaceae, Gnetaceae, etc.
- 5 Angiospermae Covered seed plants
- 52 Monocotyledoneae Monocotyledones
- 522 Pandanales
- 1 Typhaceae Bulrushes
- 2 Pandanaceae Screw pines
- 3 Sparganiaceae
- 53 Helobiae Helobiaceae Fluviales Apocarpae, etc.
- 531 Potamogetonineae
- 532 Potamogetonaceae, 533 Naiadaceae 534 Aponogetonaceae, 535 Scheuchzeriaceae, Juncaginaceae
- 536 Alismatineae Alismataceae
- 537 Butomineae
- 2 Butomaceae, 539 Hydrocharitaceae (l'rogs bit) Stratiotoideae, Thalassioideae Vallisnerioideae, Halophiloidae
- 541 Triurdales Triuridaceae
- 542 Glumiflorae
- 1 Gramineae Grasses
- 2 Cyperaceae Sedges
- 3 Caricoidae, 4 Scirpoidae
- 545 Principes Palmae Palms
- Coryphoideae, Borassioideae, Lepidocaryoideae, Ceroxyloideae Phytelphantoidae, Nipoidae

582 546-547 *Nudiflorae*

582 546	Synanthae	Cyclanthaceae	
547	Spathiflorae	Spadiciflorae	
1	Araceae	Arums	
		Pothoideae, Monsteroideae, Calloideae, Lasioideae, Philodendroideae, Colocasioideae, Aroideae, Pistioideae	
2	Lemnaceae	Duckweeds	Lemnoideae, Wolffioideae
55- 56	Farnosae	Coronarieae	
551	Flagellarineae	Flagellariaceae	
553	Enantioblastae		
554	Restionaceae	555 Centrolepidaceae,	556 Mayacaceae
	557 Xyridaceae,	558 Eriocaulaceae	Enocauloideae,
	Paepalanthoideae		
561	Bromeluneae		
562	Thurniaceae,	563 Rapateaceae,	564 Bromeliaceae, pineapples
565	Commelinuneae	Commelinaceae	Spiderworts
566	Pontederuneae		
567	Pontederiaceae,	568 Cyanastraceae	
569	Philydrineae	Philydraceae	

582 57-58 *Epigynae*

57	Liliiflorae	Liliales	
571	Juncineae	Juncaceae	Rushes
572	Liluneae		
1	Stemonaceae	Roxburghiaceae	
2	Liliaceae		
		Melanthioideae Herrenioideae, Asphodeloideae, Al-	
		loideae Lilioideae, Scilloideae, Dracaenoideae, Aspara-	
		goideae, Ophiopogonoideae, Aletroideae Luzurnagoideae	
		Smilacoideae, etc.	
3	Haemodoraceae		
4	Amaryllidaceae	Narcissi	
		Amaryllidoideae, Agavoideae, Hypoxidoideae, Campy-	
		nematoideae	
5	Valloziaceae	6 Taccaceae	
7	Dioscoreaceae	Yams	
579	Iriduncae	Iridaceae	Iris
58	Scitamineae	Anillatae	Musales
		Musaceae (bananas)	Strelitzioideae, Musoideae, Lowioideae,
		Zingiberaceae (ginger)	Zingiberoideae, Costoideae, Can-
		naceae Marantaceae (arrowroot)	
59	Microspermae	Orchudales	
594	Burmanniuncae	Burmanniaceae	
594	Gynandrae	Orchidaceae (orchids)	Pleonandrae (Diandrae)
	Monandrae		
599	Anonomahiae	Other monocotyledones	
61	Dicotyledoneae	Dicotyledones	
62- 69	Archichlamydeae	Choripetalae	Apetalae Polypetalae etc.

582 62-63 Unisexuales

- 582 621 Verticillatae Casuarinaceae
 .622 Piperale Micrombryae
 Saururaceae, Piperaceae (peppers), Chloranthaceae
 6 Hydrostachyales Hydrostachyaceae
 .623 Salicales Salicaceae Willows
 624 Garryales Garryaceae
 625 Myrcales Myricaceae
 .626 Balanopsidales Balanopsidaceae
 .627 Lenternales Lenterniaceae
 628 Juglandales Juglandaceae Walnuts
 629 Batidales Batidaceae
 .631 Julianales Julianiaceae
 .632 Fagales Cupuliferae
 1 Betulaceae Birches, etc.
 2 Fagaceae Berches, oaks
 .635 Urticales
 Ulmaceae (elms): Ulmoideae, Celtidoideae, Barbeyoideae,
 Rhoipteleaceae, Moraceae (mulberries): Moroideae, Arto-
 carpoideae, Conocephaloideae, Cannaboideae (hemp);
 Urticaceae (nettles), etc.
 .637 Podostemonales
 Multiovulatae aquaticae, Podostemonineae Podoste-
 monaceae
 .639 Proteales Proteaceae Persoomoideae, Grevilleoideae
 .64 Santalales Achlamydosporae
 .641 Santalineae
 2 Olacaceae, Dysolacoideae, Olacoidae, Schoepfioidae; 3
 Opiliaceae, 4 Oktoknemaceae, Oktoknemataceae; 5 Grub-
 biaceae, 6 Santalaceae, Sandalwood
 .642 Myzodendraceae
 .65 Aristolochiales Multiovulatae terrestres, Aristolochiaceae
 .651 [sic] Lorantheae
 Loranthaceae (mistletoe): Lorantheoideae, Viscoideae;
 Rafflesiaceae, Cytinaceae; Hydnoraceae
 .653 Balanophorales Balanophorineae Balanophoraceae
 Mystropetaloidae, Dactylanthoideae, Sarcophytoideae,
 Lophophytoideae, Helosidoideae, Balanophoroideae
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Bladderwort	582 7669	583 277	Buellaceae	582 2913	589 171
Bladderwort	582 9534	583 825	Bugseed tumbleweed	582 662	583 914
Blastocladiaceae	582 28111	589 263	Bulrushes Cyperaceae	582 5424	584.841
Blastodinaeae	582 2547	589 973232	Typhaceae	582 5221	584.613
Blastosporaceae	582 265	589 47433	Bunch flower	582 5722	584.321
Blazing star	582 998	583 5544	Bunts fungi	582 2851	589 2272
Blights bacteria	582 231	589.95	Burdock	582 998	583 5513
fungi	582 28114	589 252	Burmannaceae	582 592	584.13
Bloodroot Papaveraceae	582 682	583 1221	Burning bush Celastraceae	582 7665	583 272
Rosaceae	582 734	583 37	Chenopodiaceae	582 662	583 914
Bloodwort	582 5723	584 231	Rutaceae	582 7519	583 23
Blue grass	582 2421	584.936	Urticaceae	582 635	583 9621
Bluebells	582 992	583 59	Bur reeds	582 5223	584 612
Blueberry	582 9124	583 611	Burseraceae	582 7522	583 247
Bluebottle Carduaceae	582 998	583.5533	Butomineae	582 537	584.73
Blue-green algae	582 232	589 8	Butter-and-eggs	582 9516	583 81
Blue-stem grasses	582 5421	584 925	Buttercup Ranunculaceae	582 6751	583 111
Bluet	582 972	583 52	Rosaceae	582 734	583 37
Bodonaceae	582 2513	589 9746	Butternut blight	582 2883	589 243
Boerhavia	582 6641	583 9153	Caryocaraceae	582 819	583 1665
Bog mosses	582 3451	588 21511	Juglandaceae	582 628	583 9731
large	582 341	588 1	Butterwort	582 9534	583 825
rush	582 571	584.45	Button bush	582 972	583 52
Bombacaceae	582 797	583.173	tree	582 882	583 414
Bonnemaisoniaceae	582 27517	589 416	Platanaceae	582 732	583 971
Bonnet pepper	582 9514	583 79	weed Carduaceae	582 998	583 5533
Borage	582 9482	583 77	Malvaceae	582 796	583 172
Boraginaceae	582 948	583 77	Rubiaceae	582 972	583 52
Borassoidae	582 545	584.5	Buttonwood Combretaceae	582 882	583 414
Borriginaceae	582 9482	583 77	Platanaceae	582 732	583 971
Botany, systematic	582	582-589	Rubiaceae	582 972	583 52
taxonomic	582	582-589	Buzaceae	582 761	583 293
Bothrodendraceae	582 3826	587 9113	Buxbaumiales	582 3461	588 2122
Botrydiaceae	582 259	589.482	Buxbaumiales	582 346	588 212
Botryococcaceae	582 259	589 4852	Buxineae	582 761	583 293
Botryoptendae	582.3942	587 335	Buzzard's nose fungi	582 28728	589 2215
Box	582 761	583 203	Hyblidaceae	582 719	583.302
Brachytheciaceae	582 3451	588 21512	Pyraeaceae	582.293	589 29
Brakes	582 39474	587 3127	Dyscolomaceae	582 2933	589 171
Brand fungi	582 285	589 224	Cabbage	582 6832	583 123
Brassicaceae	582 6832	583.123	Cabomphaceae	582.6711	583 118
Brasil nut	582 877	583 423	Cabomboidae	582 6711	583 118
Bradroot	582 739	583 322	Cactaceae	582 85	583 471
Brefeldiaceae	582 2453	589 2922	Cactus	582 85	583.471
Bretschneideraceae	582 686	583.286	Caesalpinioideae	582 738	583 373
Bristle mosses	582 3445	588.21442	Calabash Bignoniaceae	582 9518	583 84
leafy	582 3448	588.21411	Cucurbitaceae	582 98	583 461
Bromeliaceae	582 361	584.22	Calamagrostis	582.3745	587.212
Brook mosses	582 3449	588 21533	Calamagrostis	582 3745	587.212
Broomrape	582 9526	583.821	Calamites	582 37	587.2
Brown algae	582 272	589.45	old	582.3745	587.212
rot fungi	582 2883	589.243	Calamophyta	582 37	587.2
Brunelliaceae	582 721	583.395	Calamophytaceae	582.43	585 954
Bruniaceae	582 724	583.396	Calamus Araceae	582 5471	584.65
Brunoniaceae	582 995	583 581	palm	582 545	584.5
Bryaceae	582.3448	588.21413	Calendulaceae	582 998	583 5531
Bryales	582 343	588.21	Caliciaceae	582 2931	589.173
Bryneae	582.3448	588 21415			

	CD	DC
Cotton	582 796	583 172
grass	582 5424	584 841
tree	582 797	583 173
Cowhage cherry	582 7541	583 214
Fabaceae	582 739	583 322
Cowslip	582 9183	583 672
Ranunculaceae	582 6751	583 111
Cranberry scald	582 2882	589 242
tree	582 973	583 511
Vaccinaceae	582 9124	583 611
Cranebill	582 7512	583 223
Craspedomonadaceae	582 2513	589 9746
Crassulaceae	582 715	583 39
Crataegus	582 734	583 37
Cress	582 6832	583 123
see also distinctive names		
Cnibranales	582 2444	589 2932
Cronartiaceae	582 2852	589 225
Crossomataceae	582 733	583 36
Crotonoideae	582 757	583 951
Crowberry	582 762	583 984
Crowfoot	582 6751	583 111
Cruciales	582 6832	583 123
Cruciferae	582 6832	583 123
Cryphaeaceae	582 3449	588 21532
Crypteromaceae	582 875	583 444
Cryptococcales	582 2515	589 97442
Cryptogamia	582 2-3	586
Cryptomonadales	582 2515	589 97444
Cryptonemiales	582 2752	589 415
Cryptophyceae	582 2515	589 9744
Cryptoraphideae	582 2611	589 622
Ctenolophonoideae	582 7514	583 211
Cucumber blight	582 28114	589 252
Cucurbitaceae	582 98	583 461
tree magnolia	582 6771	583 114
Oxalidaceae	582 7511	583 224
Cucurbitales	582 98	583-46
Cucurbitariaceae	582 28219	589 2351
Cunomaceae	582 722	583 397
Cup fungi	582 28216	589 2322
little	582 28213	589 2335
Cupressaceae	582 47	585 214
Cupressoid	582 6754	583 116
Cupuliferae	582 632	583 976
Curatella	582 813	583 112
Curtisioideae	582 894	583 497
Curvembryae	582 66	583 91
Cuscutonidae	582 942	583 781
Cushion mosses	582 3442	588 21471
Custard apple	582 6775	583 115
Cutimales	582 2723	589 455
Cyanastraceae	582 368	584 331
Cyanophyceae	582 232	589 8
Cyathaceae	582 39473	587 3128
Cycadales	582 44	585-91
Cycadineae	582 44	585-91
Cycadofilicales	582 43	585 95
Cycadophyta	582 43-45	585 9
Cycadoxylaceae	582 43	585 961
Cycas	582 44	585 911
Cyclamen	582 9183	583 672
Cyclanthaceae	582 546	584 61
Cyclocarpineae	582 3933	589 171
Cyclosporeae	582 2727	589 452
Cyclostigmaceae	582 381	587 921
Cylindrocapsaceae	582 265	589-47423
Cymbellaceae	582 2615	589 6234

	CD	DC
Cynanchoidaeae	582 938	582-73
Cynareae	582 998	583 5533
Cynocrambaceae	582 888	583 9152
Cynomoraceae	582 889	582-447
Cyperaceae	582 5412	584-841
Cyphelaceae	582 2931	589-173
Cyphoideae	582 992	583 59
Cypresseae	582 47	585 214
bald	582 47	585 211
flowering	582 8316	583 158
mock	582 662	583 974
swamp	582 47	585 211
Cynillaceae	582 7661	583 273
Cyrtandroideae	582 9528	583 83
Cyrtopodaceae	582 3449	588 21532
Cystodinae	582 255	589 9735
Cystoflagellata	582 255	589 9735
Cytinaceae	582 651	583 923
Cyttariaceae	582 28216	589 2332
Dacryomycetaceae	582 28721	589 2214
Dactylanthoideae	582 653	583 947
Dahlia	582 998	583 5547
Daisy	582 998	583 5543
Dammar tree	582 825	583 167
Dandelion	582 998	583 552
Daphniphyllaceae	582 757	583 951
Dasycladaceae	582 266	589 4734
Datisceae	582 845	583 469
Davidsoniae	582 879	583 415
Dawsonales	582 3472	588 2112
Deadnettle	582 9492	583 891
Delesseriaceae	582 2753	589-412
Dematiaceae	582 2884	589 2411
Denuderina	582-254	589 9732
Derbesiaceae	582 267	589 4725
Dermatocarpaceae	582 292	589 16
Desfontaineaceae	582 934	583 741
Desmarestiaceae	582 2721	589 457
Desmidiales	582 2622	589 613
Desmids	582 2622	589 613-614
Deuteromycetes	582 288	589 24
Devil & snuffbox	582 28726	589 2217
Dialypetalae	582 62-69	583 1
Diandrae	582 594	584-15
Diapensiaceae	582 911	583 65
Diatomatales	582 2512	589 9747
Diatomaceae	582 2615	589 6236
Diatomeae	582 261	589 62
Diatrypaceae	582 28219	589 2351
Dicarpellatae	582 93-96	583 7-8
Dichaenaceae	582 28215	589 2333
Dichapetalineae	582 756	583 255
Dichtyochaceae	582 2581	589 9722
Dichtyochudae	582 158	589-972
Dichlantheraceae	582 926	583 6861
Dicnemonaceae	582 3442	588 21473
Dicotyledoneae	582 61	583
Dicranales	582 3442	588 2147
Dichtyochaceae	582 2581	589 9722
Dictyolomoidae	582 7519	583 13
Dictyosiphonaceae	582 2721	589-457
Dictyosphaeriaceae	582 266	589-4742
Dictyostelaceae	582 247	589 292
Dictyotales	582 2724	589-451
Didiereneae	582 775	583 268
Didymaceae	582 2455	589 2923
Dilleniaceae	582 813	583 113
Dimiferidae	582 254	589-9733

	CD	DC		CD	DC
Dinoflagellatae	582 252	589 973	Elaeocarpaceae	582 791	583 192
Dinophyceae	582 255	589 9735	Elaphomycetaceae	582 28212	589 238
	582 252	589 973	Elatinaceae	582 8312	583 161
Dioscoreaceae	582 5727	584 27	Elder	582 973	583 511
Diospyraceae	582 924	583 685	Elephant 6-foot Dioscoreaceae	582 5727	584 27
Diphyssiales	582 2462	588 2122	Vernoniaceae	582 998	583 5545
Diploschistaceae	582 2933	589 171	Eligulate lycopodiales	582 381	587 92
Dipodascaceae	582 28222	589 2362	Elms	582 635	583 9625
Dipsacaceae	582 977	583 541	Emblingnoidae	582 6831	583 131
Dipteridaceae	582 39473	587 1124	Embryophyta asiphonogama	582 31	587-588
Dipterocarpaceae	582 825	583 167	asiphonogama	582 4	582
Dipterygoidae	582 6831	583 131	zoidiogama	582 31	587-588
Dinaceae	582 2932	589 172	Empetraceae	582 762	583 984
Disanthoidae	582 725	583 394	Enantioblastae	582 553	584 81
Dysacaceae	582 2611	589 6224	Encalyptaceae	582 3443	588 21462
Dyscolaceae	582 3445	588 21442	Encolthaceae	582 7721	589 457
Dyschorae	582 7-8	583 2	Endive	582 998	583 552
Dyscoidae	582 2611	589 6224	Endogonaceae	582 28123	589 283
Dyscolichaeae	582 293	589 171	Endomycetaceae	582 28222	589 2362
Dyscomyctes	582 2821	589 233	Endophyllaceae	582 2852	589 225
Dusk lichens	582 2933	589 171	Endosporeae	582 2443	589 2932
Distomatales	582 2512	589 9747	Enteridiales	582 2446	589 2932
Ditrichaceae	582 2442	588 21473	Eotodontaceae	582 3451	588 21511
Dock	582 657	583 917	Eotomophorales	582 28122	589 282
Dodder	582 942	583 781	Epacridaceae	582 9127	583 64
Dog cabbage	582 888	583 9152	Epacris	582 9127	583 64
fennel	582 998	583 5544	Ephedraeae	582 2933	589 171
Dogbane	582 937	583 721	Ephedraceae	582 49	585 13
Dog 6-tooth violet	582 5722	584 32	Ephemeraceae	582 3445	588 21442
Dogwood	582 894	583 497	Epigloaeae	582 292	589 16
Donatoidae	582 906	583 571	Epigonanthaeae	582 333	588 311
Dothideaceae	582 28219	589 2353	Epigynae	582 57-58	584 2
Downy mildew	582 28114	589 252	Epithemaceae	582 2615	589 623
Dracaeonidae	582 5722	584 32	Equisetae	582 3743	587 211
Drepanophyllaceae	582 3448	588 21414	Equisetales	582 374	587 21
Droseraceae	582 693	583 393	Equisetaceae	582 374	587 21
Drupaceae	582 734	583 37	Brensiaceae	582 28222	589 2362
Drypetes	582 757	583 951	Bremosphaeraceae	582 2644	589 47522
Duckweed	582 5472	584 68	Ergot	582 28219	589 2354
Dumontiaceae	582 3752	589 415	Ericaceae	582 9124	583 62
Durvilleaceae	582 2727	589 452	Ericales	582 912	583 6
Dwarf club mosses	582 382	587 912	Ericaceae	582 9127	583 61
Dysolacoidae	582 6412	583 26	Ericoidae	582 9124	583 62
Dysphaniaceae	582 668	583 156	Enocaulaceae	582 558	584 811
Ear fungi	582 28711	589 2221	Enogonoidae	582 657	583 917
Earthnut	582 893	583 481	Eriodaceae	582 3449	588 21535
Apiaceae	582 5423	584 841	Erymbaceae	582 28211	589 2355
Cyperaceae	582 739	583 322	Erymbaceae	582 28211	589 2355
peanuts	582 28218	589 231	Erythroxylaceae	582 7516	583 212
truffles	582 28726	589 2217	Escallonoidae	582 717	583 381
Earthstar fungi	582 28217	589 2331	Euscales	582 2821	589 233
Earth-tongues	582 925	583 6851	Eubactera	582 231	589 953
Ebenaceae	582 925	583 68	Eubasidi	582 287	589 22
Ebenales	582 925	583 68	Eubasidiomycetes	582 287	589 22
Ebony	582 925	583 6851	Eubryales	582 3448	588 2141
Ebruceae	582 2582	589 9723	Eubryales	582 344	588 212
Echinodaceae	582 3449	588 21531	Eucalyptus	582 883	583 42
Echinostelaceae	582 7453	589 2933	Euchlorophyceae	582 263	589 47
Echinosidae	582 937	583 721	Euchromulnaceae	582 2514	589 974555
Ectocarpaceae	582 2721	589 457	Eucomniaceae	582 727	583 3943
Ectolechiaceae	582 2933	589 171	Eucosjugatae	582 262	589 61
Ectosporaeae	582 2442	589 2931	Eucryphaceae	582 815	583 164
Edelweiss	582 998	583 5542	Eudorina	582 2641	582 2641
Eel grass	582 539	584 11	Eucosmetales	582 3743	587 211
Hydrales	582 533	584 742	Euffimaea	582 39472	587 212
potamogeton	582 533	584 742	Euffagallatae	582 351	589 974
Egg spore fungi	582 2811	589 231	Eufforideae	582 275	589 411
Ehretaceae	582 9482	583 77			
Elaeostaceae	582 7721	589 457			
Elaeagnaceae	582 866	583 935			

	CD	DC		CD	DC
Euglenales	582 5317	580 9747	Flacourtiaceae	582 842	583 139
Euhymenomonadaceae	582 5514	580 974554	Flagellae	582 25	580 97
Eumycetes	582 28	589 2	Flagellarumaeae	582 551	584 41
Eumotiaceae	582 2615	589 6236	Flagellatae	582 251	589 974
Eudiacaeae	582 2612	589 6222	Flagellates	582 25	589 97
Eupatoriaceae	582 998	583 5544	Flat diatoms	582 2613	589 623
Euphacophyceae	582 272	589 45	Flax	582 7514	583 211
Euphorbiaceae	582 757	583 951	Flour-de-lis	582 579	584 24
Euplasmodida	582 244	580 293	Flundersoideae	582 7519	583 23
Eupodiaceae	582 2611	589 6224	Flowering ferns	582 29475	587 3111
Eupodiscales	582 2612	589 622	Florideae	582 275	589 411
Eupomatiaceae	582 677	583 1152	Flowering ferns	582 29473	587 3111
Euprotococcales	582 2644	589 4752	mosses	582 912	583 65
Eusporangiatas	582 3942	587 33	plants	582 5	589 584
Eustichiaceae	582 3448	588 21414	rushes	582 3372	583 73
Eutuberaceae	582 28218	589 231	Flowerless plants	582 2-3	586
Eulotichales	582 265	589 4743	Fluviales	582 53	589 27
Evergreens coniferae	582 47	585 2	Fly fungi	582 28122	589 282
Everlastings	582 998	583 5542	mold	582 28122	589 282
Excupulaceae	582 2882	589 242	Poetidoideae	582 277	583 423
Exoascaceae	582 28221	589 237	Pontinalaceae	582 3449	588 21533
Exobasidiaceae	582 28723	589 2213	Forget-me not	582 9422	583 77
Exosporales	582 2442	589 2931	Forsythia	582 931	583 71
Exuvuella	582 2532	589 07333	Fossombronioideae	582 233	583 312
Fabaceae	582 729	583 322	Pouquetaceae	582 944	583 762
Fabromaceae	582 3431	588 21512	Pour-o clock	582 6642	583 9153
Fagaceae	582 6322	583 977	Postal	582 663	583 9131
Fagales	582 632	583 976	Pragliniaceae	582 2615	589 6236
Fairy clubs fungi	582 28723	589 222	Frankeniaceae	582 8314	583 151
False mermaid	582 764	583 294	Fringe tree	582 931	583 71
Farinogae	582 55-56	584 3	Frog a bit	582 339	584 11
Felt green	582 267	589 472	Fucales	582 2727	585 457
Fennel	582 693	583 481	Fumariaceae	582 682	583 1213
Fernlike plants	582 15	587	Funariales	582 3445	588 2144
seed plants	582 43	585 95	Fungi	582 28	589 2
Ferns	582 394	587 3	closed	582 28219	589 235
common	582 39474	587 3127	imperfecti	582 285	589 24
modern	582 3947	587 31	lowest	582 2812	589 28
old fashioned	582 3942	587 33	see also distinctive names		
true	582 39473	587 312	Gaertnera	582 998	583 5546
uncertain	582 394	587 38	Gamboge	582 824	583 161
see also distinctive names			Gamopetalae	582 9	583 5
Fescue grasses	582 5421	584 936	Garlic	582 5722	584 31
Festuceae	582 5421	584 936	Garryales	582 624	583 082
Fever bush	582 894	583 497	Gas plant	582 7519	583 23
Cornaceae	582 624	583 982	Gasterolichenes	582 296	589 112
Garryaceae	582 7664	583 2781	Gasteromycetes	582 2872	589 221
Ilucineae	582 678	583 931	Gaultheria	582 9124	583 62
Lauraceae	582 998	583 5537	Gazania	582 998	583 5534
Fever-few	582 6646	583 47	Geiger tree	582 9487	583 77
Picrodiales	582 6648	583 475	Geissolomataceae	582 862	583 936
Ficoidaeae	582 9491	583 881	Gelatinosae	582 293	589 18
Fiddlewood	582 6648	583 475	Gelatinous lichens	582 2757	589 416
Fig marigold	582 633	583 9623	Gelidiales	582 936	583 75
Figs			Gentianaceae	582 93	583 7
see also distinctive names			Gentianales	582 936	583 75
Figwort	582 9510	583 81	Gentianaeae	582 933	583 77
Filamentous lichens	582 293	589 19	Gentianineae	582 28217	589 2311
Filaree	582 7512	583 223	Geoglossaceae	582 3447	588 2142
Filbert	582 6321	583 979	Georgaceae	582 299	589 242
Filicaceae	582 39473	587 352	Geophonaceae	582 7512	583 223
Filicales	582 394	587 3	Geraniaceae	582 75	583 21
Filicinae	582 394	587 3	Geraniales	582 657	583 917
Filmy ferns	582 39473	587 3129	Germannaceae	582 9525	583 83
Firs	582 47	585 213	Gesneraceae	582 2721	589 457
Fissidentales	582 3441	588 2148	Giffordiaceae	582 2733	589 414
Fusion algae	582 332	589 2	Gartinales	582 3445	588 21442
fungi	582 231	589 95	Gigaspermaceae	582 885	583 9137
Flacourtiaceae	582 8423	583 139	Gilgiodaphnoideae	582 28723	589 212
			Gillbearing fungi		

	CD	DC		CD	DC
Ginger	582 58	584 24	Hackberry	582 734	583 37
wild Aristolochiaceae	582 65	583 94	Ulmaceae	582 635	583 9625
Ginkgoales	582 46	583 7	Hammodoraceae	582 5723	584 231
Ginseng	582 892	583 491	Halepops	582 3471	588 2111
Glaucomystales	582 282	589 85	Hala	582 5222	584 611
Glucheniaceae	582 39472	587 3123	Halalippe	582 5722	584 32
Globe daisy	582 5536	583 823	Halophiluladeae	582 539	584 11
Globulariaceae	582 5536	583 823	Haloragaceae	582 887	583 417
Glossopomaceae	582 2752	589 415	Haloragaceae	582 887	583 417
Glossopterides	582 43	585 972	Hamamelidaceae	582 725	583 394
Glumaceae	582 542	584 8	Haplomitridae	582 333	588 312
Glumiflorae	582 542	584 8	Harebell Campanulaceae	582 992	583 59
Gnatales	582 49	585 1	Liliaceae	582 3722	584 32
Gnetum climbers	582 49	585 1	Harpochytriacae	582 259	589 484
Gnomomaceae	582 28219	589 2351	Harts tongueae	582 39474	587 3127
Goatsbeard	582 998	583 532	Haw Rosaceae	582 734	583 37
Golden spoon tree	582 7541	583 214	Hawk bit	582 998	583 552
Goldenrod	582 998	583 5343	Hawk wood	582 998	583 552
Gonortegaceae	582 677	583 1148	Hawthorn	582 734	583 37
Gomphomaceae	582 2615	589 6234	Hazelcut	582 6321	583 979
Gomphrenoidae	582 663	583 9131	Heath shrubs dwarf	582 9516	583 876
Gonatoraceae	582 2623	589 612	Heather	582 9124	583 62
Gonystilaceae	582 794	583 191	Empetraceae	582 762	583 984
Gonystylodae	582 865	583 9331	Heaths, Australian	582 9127	583 64
Goodeniaceae	582 994	583 58	Empetraceae	582 762	583 984
Goodenivaceae	582 994	583 58	Ericaceae	582 912	583 6
Gooseberry	582 717	583 381	Hedera laurel	582 718	583 141
Goosefoot	582 662	583 914	Hedychog fungi	582 28723	589 222
Gourds	582 98	583 461	Hedysagaceae	582 3449	588 21532
Graminaceae	582 5421	584 9	Helenaceae	582 998	583 5538
Graminales	582 542	584 9	Helianthaceae	582 998	583 5547
Gramineae	582 5421	584 9	Helicophyllaceae	582 3419	588 21535
Gramma grasses	582 5421	584 935	Heliotrope	582 9482	583 77
Grape blight	582 28114	589 252	Heliotropioidae	582 9482	583 77
Grapes	582 783	583 2792	Helianthocheilaceae	582 27512	589 416
Graphidaceae	582 2922	589 172	Helobane	582 53	584 72
Grasses	582 5421	584 9	Helosidoriadeae	582 651	583 917
Gratiolaceae	582 2752	589 415	Helotiaceae	582 28216	589 2332
Great liverwort	582 331	588 33	Helvellineae	582 28217	589 2331
Green algae	582 263	589 47	Hemastacales	582 2822	589 236
algae	582 264	589 475	Hemascomycetes	582 2822	589 236
Grevillaceae	582 639	583 932	Hembasidii	582 285	589 224
Grobyaceae	582 774	583 2872	Hemlock	582 47	585 213
Grimmiales	582 3444	588 2145	poison	582 893	583 482
Grossulariaceae	582 717	583 381	Hemp	582 635	583 9623
Ground pines	582 381	587 922	agropyron	582 998	583 5544
Groundsel	582 998	583 5536	see also distinctive names		
Grubbiaceae	582 415	583 946	Hepatica	582 6721	583 111
Guava	582 883	583 42	Hepaticae	582 33	588 3
Gumbo	582 706	583 172	Hepapaceae	582 2933	589 171
Gunneroidae	582 887	583 417	Hercules club	582 892	583 491
Gurjun-balsam	582 825	583 167	Araliaceae	582 98	583 461
Guttiferaceae	582 824	583 163	Cucurbitaceae	582 98	583 23
Guttiferae	582 824	583 163	Rutaceae	582 7519	583 23
Guttiferales	582 824	583 163	Hernandiaceae	582 678	583 9312
Guttulaceae	582 241	589 292	Herpoteuraceae	582 265	589 4725
Gyalectaceae	582 2923	589 171	Herreroideae	582 5722	584 32
Gymnospermae	582 28212	589 238	Heterocapsales	582 259	589 4652
Gymnocarpaeae	582 292	589 17	Heterochloridaceae	582 259	589 4654
Gymnocarpaceae	582 2543	589 97236	Heterochloridales	582 259	589 465
Gymnodonales	582 2541	589 97233	Heterococcales	582 259	589 464
Gymnodonidae	582 2543	589 97236	Heterococcae	582 259	589 464
Gymnodonoidae	582 2541	589 97233	Heteromerse	582 91-22	583 6-6864
Gymnospermae	582 42	585	Heteropyridaceae	582 874	583 442
Gynandras	582 594	584 15	Heterosporales	582 259	589 482
Gyrophoraceae	582 2923	589 171	Heterotracheales	582 259	589 482
Gyrostemonaceae	582 6645	583 915	Hexanbesen	582 28215	589 237
			Hickory	582 628	583 9731
			Humantandraceae	582 677	583 1144

	CD	DC		CD	DC
Humanthalaceae	582 2727	589 452	Hypenium	582 824	583 162
Hippocastanaceae	582 7723	583 285	Hyphomycetes	582 2884	589 2411
Hippocrateaceae	582 7666	583 276	Hypnaceae	582 3451	588 21511
Hippuridaceae	582 888	583 446	Hypnobryales	582 3451	588 2151
Hog plum Anacardiaceae	582 765	583 292	Hypnondendraceae	582 3448	588 21413
Drupaceae	582 734	583 37	Hypochnaceae	582 28722	589 2213
Oleaceae	582 6412	583 26	Hypochoytnaceae	582 28125	589 285
Hogweed Ambroniaceae	582 998	583 5546	Hypocneaceae	582 28219	589 2354
Asteraceae	582 998	583 5543	Hypodermataceae	582 28215	589 2333
Eupatoriaceae	582 998	583 5544	Hypogynous		
Liguliflorae	582 998	583 552	monocotyledonae	582 53-56	584 3-9
Nyctaginaceae	582 6641	583 9153	Hypopterygnaceae	582 34405	588 21521
Polygonaceae	582 657	583 917	Hypoxidaceae	582 5724	584 25
Umbelliferae	582 893	583 481	Hyssop Hypenaceae	582 824	583 162
Holly	582 7664	583 2781	Labiatae	582 9492	583 891
rose	582 8425	583 455	Hysternaeae	582 28215	589 2333
Holomastigaceae	582 2511	589 9748	Icacineae	582 771	583 289
Holoplastideae	582 232	589 85	Illiceae	582 7664	583 2781
Honey flower	582 639	583 932	Illocebraceae	582 669	583 912
plant	582 774	583 2871	Indian breadroot	582 739	583 322
Honeysuckle	582 973	583 511	cress	582 5513	583 225
Hookeraceae	582 34495	588 21521	fig cactus	582 85	583 471
Hookeriales	582 34494	588 2152	Moraceae	582 635	583 9622
Hop tree	582 7519	583 23	hemp apocynum	582 937	583 721
Hoplostigmataceae	582 923	583 6812	cannabis	582 635	583 9623
Hops	582 635	583 9622	pipe	582 9123	583 63
Hordeae	582 5421	584 937	pitcherplant	582 692	583 9221
Horhound	582 9493	583 891	plum	582 8354	583 138
Hormogonales	582 232	589 83	turnup	Araceae	582 5471
Horn nut	582 885	583 413	Papilionatae	582 739	583 322
Hornbeam	582 6321	583 978	Indigo	582 739	583 322
Hornworts Anthocerotales	582 332	588 32	Inferae	582 97 99	583 31-591
Ceratophyllaceae	582 6712	583 1182	Inulaceae	582 998	583 5542
Horse chestnut	582 7723	583 285	Inversicatenales	582 394	587 38
Horsetails	582 374	587 211	Iridaceae	582 579	584 24
Horsetweed	582 998	583 5543	Iridales	582 57-58	584 2
Houseleek	582 775	583 39	Iris	582 5792	584 24
Huckleberry	582 9124	583 611	Ironweed	582 908	583 5545
Humulaceae	582 7514	583 213	Ironwood Betulaceae	582 6321	583 978
Humpback mosses	582 3461	588 2122	see also specific names		
Hyacinth	582 5722	584 32	Isobryales	582 3449	588 2153
Hyalonaceae	582 28712	589 2232	Ischyrsidaceae	582 2514	589 974554
Hyalovolvocaceae	582 2641	589 47534	Isotales	582 393	587 1
Hydnaceae	582 28723	589 222	Isokontae	582 263	589 47
Hydnoraceae	582 651	583 9222	Iteaceae	582 717	583 381
Hydrales	582 539	584 11	Iteaceae	582 892	583 491
Hydrangoidae	582 717	583 381	Ivy	582 7514	583 211
Hydrocaryaceae	582 885	583 413	Ixonanthoideae	582 9518	583 84
Hydrochantaceae	582 539	584 11	Jacaranda	582 678	583 9312
Hydroclathraceae	582 2721	589 457	Jack-in-a-box	582 5471	584 65
Hydrocotyloideae	582 893	583 481	Jack-in-the-pulpit	582 943	583 7611
Hydrodictyaceae	582 2644	589 47523	Jacob's ladder	582 883	583 442
Hydrogastreae	582 259	589 482	Jamrosade	582 935	583 74
Hydromyzales	582 242	589 39	Jasmin Loganiaceae	582 931	583 71
Hydrophyllaceae	582 9481	583 764	Oleaceae	582 931	583 71
Hydropteridaceae	582 39475	587 311	Jasminoideae	582 28712	589 2232
Hydrostachyaceae	582 6226	583 9211	Jelly fungi	582 908	583 5547
Hydriraceae	582 2514	589 974552	Jerusalem artichoke		
Hydraceae	582 370	587 2122	Jessamin see Jasmin		
Hylocomaceae	582 3451	588 21511	Jewel weed	582 776	583 226
Hymenogastriaceae	582 28723	589 2216	Jew's ear fungi	582 28711	589 2231
Hymanolichenes	582 296	589 111	Jimson weed	582 9514	583 79
Hymanomonadaceae	582 2514	589 974554	Joe-pye weed	582 998	583 5544
Hymanomycetaceae	582 28723	589 222	Joint fir	582 49	585 1
Hymanophyllaceae	582 39473	587 3129	Jubuloideae	582 333	588 311
Hypericaceae	582 682	583 1231	Judas tree	582 672	583 323
Hypericales	582 81	583 12	Juglandales	582 628	583 973
Hypericaceae	582 824	583 162	Juhaniae	582 631	583 973
			Juncaceae	582 571	584 45

	CD	DC		CD	DC
Juncaginaceae	582 535	584 744	Lepidodendreae	582 3823	587 911
Juncaginaceae	582 535	584 744	Lepidodendreae	582 382	587 91
Juncineae	582 571	584 45	Lepidophyta	582 38	587 9
Juneberry	582 734	583 37	Lepidophytaceae	582 3823	587 911
Jungermanniales	582 333	588 31	Leptomataceae	582 26112	589 26
Juniperaceae	582 47	585 216	Leptopteridaceae	582 883	583 42
Juncus	582 47	585 216	Leptosporangiales	582 3947	587 31
Kelps	582 2721	589 457	Leptostomataceae	582 3448	588 21415
Kentucky coffee tree	582 738	583 323	Leptostromataceae	582 2882	589 242
Kilmeyeraceae	582 824	583 163	Leptothecaceae	582 333	588 312
Knackaway	582 9482	583 77	Lepyrodontaceae	582 3449	588 21532
Knawweed	582 908	583 5533	Leskeaceae	582 3451	588 21512
Knawel	582 669	583 1545	Lettuce	582 998	583 552
Knoornptendae	582 394	587 38	Leucobryaceae	582 3442	588 21471
Knotweed	582 657	583 917	Leucodontaceae	582 3449	588 21532
Knotwort	582 669	583 912	Leucommaceae	582 34405	588 21521
Koerberiaceae	582 6831	583 131	Leucophanaceae	582 3442	588 21471
Kramenaceae	582 738	583 323	Lucales	582 2452	589 1932
Labiatae	582 9492	583 891	Lichens	582 29	589 1
Labiataceae	582 998	583 553	closed	582 202	589 16
Laboulbeniales	582 2823	589 232	covered fruit	582 202	589 16
Labrador tea	582 9124	583 62	naked fruit	582 203	589 17
Lacustrineae	582 841	583 983	Lichunaceae	582 2033	589 171
Lactonaceae	582 677	583 1145	Laconce	582 739	583 322
Lactucaceae	582 998	583 553	Lagnum vitae	582 7517	583 221
Lacy ferns	582 39473	587 3129	Ligulate lycopodiales	582 382	587 91
Ladies' tresses	582 594	584 15	Liguliflorae	582 998	583 552
Lady's slipper	582 594	584 15	Lilac	582 931	583 71
Lagenidaceae	582 28113	589 262	Liliaceae	582 5722	584 32
Lamiaceae	582 9492	583 891	Lilales	582 57	584 32
Lamiales	582 949	583 89	Liliiflorae	582 57	584 32
Lammariales	582 27246	589 454	Lilunaceae	582 572	584 32
Land ferns	582 39473	587 312	Liloudeae	582 5722	584 32
Larch	582 47	585 213	Lily	582 5722	584 32
Lardizabalaceae	582 6752	583 1172	Lily-of-the-valley	582 5722	584 322
Lacksput	582 6751	583 111	Limes Rutaceae	582 7519	583 23
Laeonidae	582 5471	584 65	Tiliaceae	582 795	583 19
Lattice plant	582 534	584 743	Lamnanthaceae	582 764	583 294
Lattice-leaf	582 534	584 743	Lunaceae	582 7514	583 211
Lauraceae	582 678	583 931	Linden	582 795	583 19
Laurel	582 678	583 931	Lunodeae	582 7514	583 211
American	582 9124	583 62	Liquidambaroides	582 725	583 394
Laurineae	582 678	583 931	Liriodendron	582 6771	583 114
Lavanduloides	582 9492	583 891	Lissocarpaceae	582 929	583 6864
Lavender	582 9492	583 891	Lasterellaceae	582 3452	589 2932
sea	582 919	583 671	Live-forever	582 715	583 39
Leadwort	582 919	583 671	Liverwort	582 33	588 3
Leather-leaf	582 9124	583 62	Lizard's-tail	582 622	583 9252
Leatherwood	Cynilaceae	582 7661	Loasaceae	582 844	583 453
Thymelaeaceae	582 865	583 9331	Lobeloidae	582 992	583 591
Leathery fungi	582 28723	589 222	Locust	582 739	583 322
Lecanactidaceae	582 2933	589 171	Loganiaceae	582 935	583 74
Lecanoraceae	582 2933	589 171	Loosestrife	582 872	583 441
Lecodeaceae	582 2933	589 171	Lophostomataceae	582 38219	589 2351
Lecythidaceae	582 817	583 423	Lophophytoidae	582 653	583 947
Leek	582 5722	584 32	Lopseed	582 957	583 873
Lecodeae	582 783	583 2792	Loranthaceae	582 651	583 941
Leguminosae	582 736	583 33	Lotus Nymphaeaceae	582 6711	583 118
Letitneriaceae	582 697	583 972	Lowlandae	582 58	584 314
Lemnaceae	582 27512	589 416	Loxosomaceae	582 39473	587 3129
Lembophyllaceae	582 3440	588 21532	Lupin	582 739	583 322
Lemnaceae	582 5472	584 68	Luzuhagoidae	582 5722	584 32
Lemnoidae	582 5472	584 68	Lycogalaceae	582 2446	589 2932
Lemnoaceae	582 947	583 66	Lycopodiaceae	582 28226	589 2217
Lenticulariaceae	582 9534	583 825	Lycopodiaceae	582 381	587 922
Lepidocaryaceae	582 545	584 5	Lycopodiales	582 38	587 9
Lepidodendraceae	582 3824	587 9115	Lycopodinae	582 38	587 9
Lepidodendreae	582 3823	587 911	Lycopodinae	582 382	587 92

	CD	DC		CD	DC
Lygnoendraceae	582 43	585 967	Melanthaceae	582 5722	584 321
Lygnoptendaeae	582 43	585 967	Melanthaceae	582 5722	584 321
Lyngbyaceae	582 232	589 83	Melastomaceae	582 584	583 43
Lythraceae	582 872	583 441	Melastomatodendae	582 884	583 43
Lythraeae	582 872	583 441	Meliaceae	582 7523	583 251
Madder	582 972	583 52	Melanthaceae	582 774	583 2871
Maesoidae	582 9182	583 677	Melanthaceae	582 774	583 287
Magnolia	582 6771	583 114	Meloideae	582 7523	583 251
Magnolinaceae	582 677	583 114	Melogrammataceae	582 28219	589 2351
Mahogany	582 7523	583 251	Melomaceae	582 2611	589 6224
Maidenhair ferns	582 39474	587 3127	Memecylaceae	582 884	583 43
trees	582 46	585 7	Mendoncia leae	582 955	583 86
Maize grasses	582 5421	584 922	Menispermaceae	582 6754	583 116
Malaceae	582 734	583 37	Menthaceae	582 9492	583 891
Malacospermae	582 85	583 471	Menyanthoideae	582 936	583 751
Malesherbiaceae	582 8426	583 457	Mercuriales	582 2615	589 6236
Malla tree	582 6412	583 26	Mesocarpaeae	582 2623	589 613
Mallomonadaceae	582 2514	589 974555	Mesoglossaeae	582 2721	589 457
Mallow	582 796	583 172	Mesotaenaceae	582 2622	589 614
Malpighiaceae	582 7541	583 214	Metachlamydeae	582 9	583 5
Malpighineae	582 754	583 214	Meteoriaceae	582 3449	588 21532
Malvaceae	582 796	583 172	Metzgeriaceae	582 333	588 312
Malvales	582 79	583 17	Meserion	582 865	583 9331
Malvineae	582 793	583 171	Microbryae	582 622	583 925
Manchunel	582 757	583 951	Microbes	582 231	589 95
Mango	582 765	583 292	Microspemae	582 59	584 1
Mangosteen	582 824	583 163	Microsporaceae	582 265	589 47433
Mangrove	582 878	583 411	Microthamniae	582 265	589 47428
black	582 9491	583 881	Microthamnaceae	582 28211	589 2355
Maple	582 7722	583 284	Melichhoferiaceae	582 3448	588 21475
Marantaceae	582 58	584 211	Mignonet	582 684	583 133
Marattiales	582 3946	587 332	Mildews	582 28211	589 2355
Maritaviaceae	582 821	583 1666	d wuy	582 28114	589 252
Marchantiales	582 331	588 33	Milfoil	582 908	583 5537
Marselia	582 888	583 446	water	582 887	583 417
Margantales	582 2456	589 2932	Milkweed	582 938	583 71
Margosa	582 7523	583 251	Milkwort	582 7552	583 141
Margold Compositae	582 994	583 5535	Millet	582 5422	584 926
Ranunculaceae	582 6751	583 111	Mimosa	582 737	583 121
Marjoram	582 9492	583 891	Mimosoideae	582 737	583 121
Marlberry	582 9182	583 677	Mints	582 9492	583 891
Marsh elder	582 998	583 5546	Mischococcales	582 259	589 4753
rosemary			Mistletoe	582 651	583 917
Ericaceae	582 9124	583 62	Mitella	582 717	583 381
Plumbaginaceae	582 919	583 671	Miterwort	582 935	583 74
Marsiliaceae	582 39475	587 3112	Saxifragaceae	582 717	583 381
Martyniaceae	582 9524	583 852	Mitteniaceae	582 3448	588 21414
Massaniaceae	582 28219	589 2351	Mniaceae	582 3448	588 21415
Mastuo deae	582 894	583 497	Mocasin flower	582 594	584 15
Mastodiaceae	582 292	589 16	Mock orange	582 98	583 461
Matoniaceae	582 39472	587 3125	Cucurbitaceae	582 717	583 381
May apple	582 9124	583 62	Hydrangeaceae	582 734	583 37
Ericaceae	582 8427	583 456	prunus	582 922	583 6811
Passifloraceae	582 6753	583 117	Sapotaceae	582 928	583 6861
podophyllum	582 556	584 37	strax	582 2884	589 2411
Mayacaeae	582 5121	584 922	Mold fungi	582 28121	589 281
Maydeae	582 834	583 43	Mucorales	582 2812	589 28
Meadow beauty	582 6 51	583 111	Moldlike saprophytes	582 2812	589 26
rus	582 571	584 45	Molds, water	582 28126	589 2332
rushes	582 734	583 37	Mollinaceae	582 6648	583 476
sweet	582 43	585 966	Molluginaceae	582 2513	589 9746
Medullosaceae	582 816	583 1663	Monadaceae	582 594	584 15
Medusagynaceae	582 3448	588 21412	Monandreae	582 2884	589 2411
Mecseaeae	582 43	585 971	Moniliales	582 6179	583 1147
Megalopterides	582 43	585 955	Monumacae	582 8, 7	583 473
Megaloxylaceae	582 2852	589 225	Monkeypot tree	582 28111	589 263
Melamporaceae	582 2833	589 243	Monoblepharidaceae	582 62-66	583 9
Melanconiales	582 28219	589 2351	Monochlamydeae	582 259	589 453
Melanconidaceae			Monochlamydeae		

	CD	DC		CD	DC
Monocotyledoneae	582 52	584	Myxophyta	582 24	589 29
Monopetalae	582 9	583 5	Myxothallophyta	582 24	589 29
Monotrudae	582 825	583 167	Myzodendraceae	582 622	583 944
Monotropaceae	582 9123	583 63	Naadaceae	582 533	584 747
Monsteroideae	582 5171	584 65	Naadales	582 53	584 72
Monsteroideae	582 666	583 1561	Najadaceae	582 533	584 747
Moonseed	582 6 54	583 116	Najadales	582 53	584 72
Moorwort	582 9124	583 62	Nakedwood	582 883	583 42
Moraceae	582 635	583 9622	Myrtaceae	582 782	583 2791
Moringaceae	582 685	583 1222	Rhamnaceae	582 877	583 423
Munoliaceae	582 292	589 16	Napoleonaceae	582 5724	584 25
Morning-glory	582 942	583 78	Narcissus	582 7513	583 225
Moraceae	582 635	583 9622	Nasturtiums	582 2615	589 6234
Morobobaceae	582 524	583 163	Naviculaceae	582 2615	589 6234
Mortierellaceae	582 8121	589 281	Naviculales	582 3449	583 21531
Moschatel	582 974	583 513	Neckeraceae	582 2882	589 212
Mosses	582 34	588 2	Nectroideaceae	582 922	583 86
long bromelia	582 504	584 22	Nelsoniaceae	582 6711	583 118
small	582 342	588 22	Nelumbonaceae	582 6711	583 118
true	582 343	588 22	Nemalonales	582 27512	589 416
see also special names			Nemastomaceae	582 2753	589 415
Mosswords	582 32	588	Nematocaceae	582 34494	588 21522
Mougeotiaceae	582 2023	589 612	Nematocaceae	582 34494	588 21522
Mountain ash	582 883	583 42	Nepenthiaceae	582 692	583 9221
Myrtaceae	582 931	583 71	Nephrolepidaceae	582 2515	589 97144
Oleaceae	582 734	583 37	Nettle	582 635	583 6021
Pomaceae	582 2884	589 2411	Neuradonaceae	582 734	583 37
Mucedinaceae	582 28121	589 28	Neuroplendes	582 43	585 974
Mucorales	582 635	583 9622	Nidulariaceae	582 9727	589 2218
Mulberry	582 9516	583 81	Nigritahade	582 9514	583 79
Mullen	582 637	583 92	Nilssonaceae	582 45	585 923
Multivulvate aquaticae	582 65	583 422	Nipodeae	582 545	584 5
terrestres	582 58	584 21	Nipplewort	582 998	583 552
Musales	582 34	588 3	Nitellaceae	582 271	588 42
Musti	582 31	588	Nitrariaceae	582 7517	583 221
Muscineae	582 28723	589 222	Nitrobacteriaceae	582 231	589 953
Mushrooms	582 58	584 214	Nitroschiaceae	582 2615	589 6233
Musoidae	582 6532	583 123	Noctilucaceae	582 2545	589 973234
Mustard	582 908	583 5532	Nolanaceae	582 9512	583 792
Mutinaeae	582 2885	589 244	Nothaceae	582 231	589 83
Mycelic fungi imperfecti	582 24	589 29	Nothaceae	582 2727	589 452
Mycetozoa	582 231	589 953	Nudiflorae	582 546- 547	584 6
Mycobacteriaceae	582 28	589 2	Nutmeg	582 6777	583 1146
Mycology	582 292	589 16	Nux vomica	582 925	583 74
Mycoporaceae	582 28219	589 2351	Nyctagynaceae	582 6641	583 9153
Mycosphaerellaceae	582 956	583 871	Nymphaceae	582 675	583 118
Mycoporaceae	582 28212	589 238	Nysaceae	582 879	583 415
Myriales	582 625	583 974	Oac	582 6122	583 977
Myriomemataceae	582 2721	589 457	Oals	582 5421	584 934
Myriotrachiaceae	582 2721	589 457	Ochnaceae	582 817	583 245
Myristicaceae	582 6777	583 1146	Ochromonadaceae	582 2514	589 974553
Myrobolan	582 882	583 414	Ocnodaceae	582 9492	583 892
Myrothamnaceae	582 723	583 3942	Octoknemataceae	582 6414	583 9461
Myrrh	582 7522	583 247	Odontopt rides	582 43	585 975
Myrsinaceae	582 9182	583 677	Oedipodiaceae	582 3445	588 21411
Myrtaceae	582 883	583 42	Oedogonaceae	582 265	589 47432
Myrtales	582 86	583 4	Oenotheraceae	582 886	583 445
Myrtiflorae	582 86	583 4	Ocmonadaceae	582 2513	589 9746
Myrtineae	582 871	583 41	Okra	582 796	583 172
Myrtle	582 883	583 42	Oktokeumaceae	582 6414	583 9461
Myrtideae	582 883	583 42	Oleaceae	582 6412	583 26
Myrtropetaloidae	582 653	583 947	Oleaceae	582 931	583 71
Myrtaceae	582 3449	583 21532	Oleaceae	582 931	583 71
Myurococoraceae	582 2644	589 47532	Oleana	582 998	583 5543
Myxobacteriaceae	582 231	589 953	Oleaster	582 866	583 915
Myxogasteres	582 244	589 293	Oleaceae	582 931	583 71
Myxomycetes	582 24	589 29	Oleaceae	582 931	583 71
Myxophyceae	582 232	589 8	Olinaceae	582 864	583 937

Olive	CD	DC			CD	DC
green algae	582 931	583 71	Partenup		582 893	583 481
wild Olacaceae	582 163	589 47	Partridge berry	Ericaceae	582 9124	583 62
Olpidiaceae	582 6412	583 26		Rubiaceae	582 972	583 32
Onagraceae	582 28125	589 185	Passifloraceae		582 8427	583 436
Onagraceae	582 886	583 443	Passiflorales		582 842	583 45
Onon	582 5722	584 32	Passion flower		582 8427	583 456
Onygenaceae	582 28212	589 238	Patellariaceae		582 28216	589 2332
Oochytriacae	582 28125	589 285	Patmarwort		582 651	583 923
Oocystaceae	582 2644	589 47522	Peach		582 734	583 37
Oomycetes	582 2811	589 351	leaf curl		582 28221	589 237
Oosporeae algae	582 26-27	589 5	Peanut		582 739	583 322
fungi	582 288	589 24	Pear	hard	582 734	583 37
Optiocytiaceae	582 259	589 454	Peas		582 864	583 937
Ophioglossales	582 3944	587 331	Peat mosses		582 739	583 311
Ophiopogonoideae	582 5722	584 32	Pecan		582 341	588 1
Opilaceae	582 6413	583 945	Pecopterides		582 648	583 9731
Opuntiales	582 85	583 471	Pedaliaceae		582 43	583 978
Orchidaceae	582 394	584 15	Pedaliaceae		582 9522	583 85
Orchidales	582 59	584 32	Pedaliaceae		582 9522	583 85
Orchids	582 594	584 15	Peganoideae		582 7517	583 221
Orchus	582 594	584 15	Peltigeraceae		582 2933	589 171
Orbanchaceae	582 9526	583 821	Pennaceae		582 863	583 924
Orpin	582 715	583 39	Pemene		582 2612	589 613
Orthodontioideae	582 3448	588 21415	Pennales		582 2615	589 633
Orthotrichaceae	582 3449	588 21535	Pennatae		582 2615	589 633
Oryzae	582 5421	584 927	Pennyroyal		582 9497	583 391
Osage orange	582 635	583 9622	Pentaclicha Sympetaleae		582 91-92	583 6-6864
Oscillariaceae	582 232	589 83	Pentaphyllaceae		582 7662	583 278
Oscillatoraceae	582 232	589 83	Penthoraceae		582 717	583 39
Oser	582 623	583 961	Peponiferae		582 98	583 46
Osmundaceae	582 39472	587 3121	Peppergrass		582 6832	583 123
Ostropaceae	582 28215	589 2333	Pepperidge		582 304	583 407
Ouabe	582 757	583 951	Peppermint		582 9492	583 891
Oxalidaceae	582 7511	583 224	Peppers		582 632	583 9251
Oxalis	582 7511	583 224	Pepperworts	Cruciferae	582 6832	583 123
Ox-eye daisy	582 998	583 5537	ferns		582 39475	587 3112
Paepalanthoideae	582 558	584 811	Peranemataceae		582 2517	589 9742
Paletuvieraceae	582 878	583 411	Pendulales		582 252	589 973
Palmar	582 545	584 5	Pendulales		582 2549	589 97322
Palmellaceae	582 2644	589 47537	Pentaplocoideae		582 938	583 73
Palmetto	582 545	584 5	Pentaplocoideae		582 28212	589 2333
Palm	582 545	584 5	Peronosporales		582 28214	589 252
Pandales	582 74	583 985	Pervoidae		582 678	583 611
Pandanales	582 522	584 61	Perramon		582 925	583 4851
Pandorina	582 2641	589 47534	Personales		582 951	583 8
Panic grasses	582 5421	584 926	Personoideae		582 639	583 932
Panicaceae	582 5421	584 926	Pertusariaceae		582 2933	589 171
Pannariaceae	582 2933	589 171	Petticost mosses		582 3445	583 21441
Pantostomatales	582 2511	589 9748	Peynischellaceae		582 2823	589 232
Papaveraceae	582 682	583 1221	Pezizaceae		582 28216	589 2332
Papaverales	582 68	583 122	Phacidiaceae		582 28213	589 2335
Papaw Anonaceae	582 6775	583 115	Phacotaceae		582 2641	589 47534
Carnicaceae	582 643	583 462	Phaeocapsales		582 2515	589 97443
Papaya	582 843	583 462	Phaeophyceae		582 273	589 45
Papayinaceae	582 843	583 462	Phaeosporae		82 2746	589 453
Papilionatae	582 739	583 322	Phaeothamnaceae		5 2 2514	589 97451
Paprika	582 9514	583 79	Phaeosporineae		4-2 2726	589 453
Paradise tree	582 7511	583 241	Phalaridenaceae		382 2513	589 9746
Parasitic fungi	582 283	589 23	Phalaridaceae		582 5421	584 933
Parathelaceae	582 293	589 16	Phallineae		582 23728	589 2215
Paratetaleae	582 81	583 12	Phanerogamia		582 4	582
Parthenaceae	582 39474	583 3126	Pherosphaeroidae		82 47	583 223
Parneaceae	582 2923	589 171	Philocendroidae		582 5471	584 65
Parasitaceae	582 717	583 381	Phylodineae		582 569	584 35
Paronychiaceae	582 669	583 1544	Phlox		582 943	583 7611
Paropodaceae	582 28217	589 2355	Phomales		582 345	584 5
Parsley	582 893	583 461	Phymaceae		582 957	583 873
			Phylobacteriaceae		582 231	589 963

	CD	DC		CD	DC
Phycobromaceae	582 232	589 8	Pleurocarpa	582 3449	588 215
Phycolichenes	582 290	589 482	Pleurococcaceae	582 2644	589 47523
Phycomycetes	582 281	589 25	Pleuromenaceae	582 3829	587 9111
Phyllanthaceae	582 757	583 951	Pleuraphaceae	582 3442	588 21472
Phyllodactyloideae	582 47	585 224	Pleuronomeae	582 333	588 321
Phyllonomaceae	582 3449	588 21531	Plocamaceae	582 2753	589 414
Phyllorhynchaceae	582 2753	589 414	Plum pocket	582 28221	589 237
Phyllorhynchaceae	582 2933	589 171	Plumbaginaceae	582 919	583 671
Phyllopyrenaceae	582 292	589 16	Plumbago	582 919	583 671
Phyllorhynchaceae	582 267	589 4724	Plumerioideae	582 937	583 721
Physarales	582 2455	589 2932	Plums	582 734	583 37
Phymaceae	582 2933	589 171	Poaceae	582 5421	584 9
Phytelphantoideae	582 545	584 5	Poales	582 542	584 84
Phytolagellatae	582 251	589 974	Po lat fungi	582 28221	589 237
Phytolaccineae	582 664	583 915	Podaxaceae	582 28724	589 2219
Phytomyxinae	582 28123	589 285	Podocarpaceae	582 47	585 223
Phytosarcodina	582 24	589 29	Podophylloideae	582 6753	583 117
Pickered weed	582 561	584 34	Podostemonales	582 637	583 92
Picramnioideae	582 7521	583 241	Poison wood	582 765	583 292
Pignut Apiaceae	582 893	583 487	Anacardiaceae	582 757	583 951
Araliaceae	582 892	583 491	Euphorbiaceae	582 6643	583 915
Juglandaceae	582 628	583 9711	Pokeberry	582 6643	583 915
Trnocae	582 757	583 951	Pokeweed	582 6643	583 915
Pigweed amaranthus	582 663	583 9131	Polanusa	582 6831	583 131
chenopodium	582 662	583 914	Polemoniaceae	582 943	583 7611
Pilacraeae	582 28711	589 2231	Polemoniales	582 94	583 761
Pilocarpaceae	582 2933	589 171	Polemonioidae	582 943	583 7611
Pilotrichaceae	582 34495	588 21521	Polemonium	582 943	583 7611
Pimento	582 883	583 42	Polyblepharidaceae	582 2641	589 47534
Pumpkin Primulaceae	582 9183	583 672	Polycarpaeae	582 609	583 1541
Umbelliferae	582 893	583 481	Polycarpellatae		
Pinaceae	582 47	585 213	andro-epipetalous	582 67-75	583 11-255
Pinales	582 47	585 2	gamopetalous	582 91-92	583 6-6864
Pinapple	582 564	584 22	Polycarpaeae	582 67	583 11
Pines	582 47	585 213	Polygalaceae	582 7552	583 143
ground	582 381	587 922	Polygalales	582 755	583 14
old	582 47	585 212	Polygalaceae	582 755	583 14
Pinguiculaeae	582 9534	583 825	Polygonales	582 657	583 917
Pinks	582 669	583 153	Polygonoidae	582 657	583 917
Pinkster	582 9124	583 62	Polykinkeae	582 2544	589 973235
Pinater	582 9124	583 62	Polyptelae	582 62-69	583 1
Piperaleae	582 622	583 925	Polypodiaceae	582 39474	587 3127
Pipewort	582 558	584 811	Polyporaceae	582 28723	589 222
Pipissawa	582 9123	583 631	Polytrichales	582 3471	588 2111
Piptocarphalidaceae	582 28121	589 281	Polytrichinales	582 347	588 211
Pistoudeae	582 5471	584 65	Pomaceae	582 734	583 37
Pitcherplants	582 691	583 121	Pomegranate	582 876	583 412
Australian	582 716	583 291	Pomodeae	582 734	583 37
East Indian	582 692	583 9221	Pond scum	582 2623	589 612
Pittosporaceae	582 716	583 141	Pondweed	582 532	584 742
Playacae	582 405	585 52	Pontederaceae	582 567	584 34
Placoderm desmuds	582 2622	589 613	Pontederaleae	582 566	584 33
Plagiothecaceae	582 3451	588 21511	Pontederunaeae	582 566	584 33
Plakopodaceae	582 242	589 39	Poplar	582 623	583 981
Planchnomideae	582 877	583 423	Poppy	582 682	583 1222
Plane trees	582 732	583 971	water	582 5372	584 73
Planer tree	582 635	583 9625	Poranthoroidae	582 757	583 951
Plantaginiales	582 96	583 899	Portulacineae	582 665	583 156
Plantains	582 96	583 899	Potamogetonaceae	582 531	584 74
mud	582 567	584 34	Potato	582 9574	583 70
water	582 536	584 721	blight	582 28114	589 252
Plasmopodiphorales	582 28125	589 285	Pothordeae	582 5471	584 65
Platanaceae	582 732	583 971	Pottuaceae	582 3443	588 21461
Plectascaeae	582 28121	589 238	Pottuaceae	582 3443	588 2146
Plectobandunaeae	582 28724	589 2219	Pouchetiaceae	582 2546	589 973233
Pleasantiae	582 594	584 15	Powdery fungi	582 28214	589 2334
Pleosporeae	582 28119	589 2351	lichens	582 2931	589 173
Pleurocapsaceae	582 232	582 84	mildews	582 28211	589 2355
			Prasodeae	582 9402	583 891

	CD	DC			CD	DC
Sedges	582 5422	582 841	Snowdrop tree	Oleaceae	582 931	582 77
Seed ferns	582 43	582 95		styrax	582 938	582 6801
plants	582 4	582	Soapberry		582 7724	582 582
covered	582 5	582-584	Soapwort		582 669	582 133
fruit	582 42	582	Solanaceae		582 9514	582 79
naked	582 42	582	Solanalea		582 9514	582 79
Seedless plants	582 2-3	586	Solanineae		582 951	582 8
Selaginaceae	582 95 16	582 876	Solenaceae		582 3615	582 6333
Selaginiae	582 95 16	582 876	Selenopora		582 2753	582 415
Selaginellales	582 382	582 912	Selomon a seal		582 5722	582 377
Selenastraceae	582 2644	582 47322	Sonneratiaceae		582 874	582 443
Seligeraceae	582 2443	582 21473	Sorapillaceae		582 3448	582 51414
Sematophyllaceae	582 3431	582 21511	Sordaniaceae		582 26319	582 2355
Sensuonadaceae	582 999	582 5336	Sorophora		582 341	582 303
Senna	582 728	582 373	Sorrel		582 637	582 917
Sensitive plant	582 737	582 321	Souari nut		582 819	582 1665
Sequoia	582 47	582 321	Sour gum tree	Cornaceae	582 894	582 407
Sesame	582 9522	582 85		Nymphaeaceae	582 879	582 415
Shield fern	582 39474	582 3127	Sow thistle		582 998	582 532
Shinleaf	582 9123	582 631	Spadiciflorae		582 547	582 64
S de mosses	582 3469	582 215	Spanish mosses		582 564	582 22
Side-saddle flower	582 691	582 121	Sparganiaceae		582 5223	582 612
Sigillariaceae	582 3828	582 9112	Spatheloidae		582 7519	582 23
Silenaceae	582 669	582 132	Spathuliflorae		582 547	582 64
Sileneae	582 669	582 132	Spatterdock		582 6711	582 118
Silenoidae	582 669	582 132	Spearwort		582 4922	582 691
Silicoflagellatae	582 258	582 972	Spergularae		582 669	582 1543
Silk-cotton tree	582 797	582 173	Spermaphyta		582 4	582
Silkweed	582 938	582 73	Spermatocnaceae		582 2722	582 457
Samarubaceae	582 7522	582 241	Spermatophyta		582 4	582
Sapronales	582 267	582 472	Spermophorales		582 2820	582 23
Siphonaeae	582 266-267	582 471	Sphacelinales		582 2722	582 456
Siphonocladales	582 266	582 473	Sphaerellaceae		582 2645	582 47534
Siphonomyces	582 281	582 25	Sphaerocarpales		582 2829	582 3351
Siphonophyceae	582 266-267	582 472	Sphaerocarpidae		582 2822	582 742
Siphonotestales	582 2581	582 9722	Sphaerobolaceae		582 2824	582 2519
Sirobasidaceae	582 2872	582 232	Sphaerocarpoidae		582 331	582 319
Sirospionaceae	582 232	582 83	Sphaerocarpaceae		582 2752	582 413
Skunk cabbage	582 3471	582 65	Sphaerophoraceae		582 2931	582 173
Skunkweed	582 943	582 7611	Sphaeropleaceae		582 266	582 472
Slime algae	582 232	582 8	Sphaeropodales		582 2882	582 142
fungi	582 24	582 29	Sphagnales		582 341	582 1
mold fungi	582 24	582 29	Sphenophyllales		582 371	582 14
Slit fungi	582 2821 5	582 2333	Sphenopterides		582 42	582 979
lichens	582 9932	582 272	Spiderwort		582 565	582 38
Smartweed	582 657	582 917	Spike rush		582 5474	582 641
Smilacaceae	582 3722	582 372	Spindle tree		582 7665	582 272
Stematax	582 5722	582 372	Spiraeoidae		582 734	582 27
Stem fungi	582 2851	582 2721	Spondaniaceae		582 3448	582 21412
Snakeroot			Spirillaceae		582 331	582 933
black	582 6751	582 115	Sporogynaceae		582 2623	582 612
button	582 893	582 481	Splachnaceae		582 3445	582 11441
Canada	582 908	582 3544	Splachnoidae		582 2722	582 458
heart	582 65	582 924	Spleenwort		582 39474	582 3117
sandwich	582 893	582 924	Spore plants		582 2-3	586
Senega	582 7553	582 143	Sporocnaceae		582 2721	582 457
Virginia	582 65	582 924	Spot fungi		582 2882	582 342
white	582 998	582 5544	Spruce		582 47	582 113
Snagdragon	582 9516	582 81	Spumariaceae		582 2655	582 7933
Sneezweed	582 998	582 5338	Spurge		582 757	582 951
Snowberry	582 973	582 511	laurel		582 865	582 9315
creeping	582 9124	582 611	Squamariaceae		582 2752	582 415
Ericaceae	582 9124	582 62	Stachyodae		582 4962	582 891
Rubiaceae	582 972	582 12	Stachyuraceae		582 2424	582 1302
			Stachysacae		582 7668	582 774

	CD	DC		CD	DC
Phycocchromaceae	582 332	589 8	Pleurocarpi	582 3449	588 215
Phycolichenes	582 390	589 482	Pleurococcaceae	582 2644	589 47523
Phycomyces	582 381	589 25	Pleuromenaceae	582 3829	587 9111
Phyllanthoideae	582 757	583 951	Pleurophascaceae	582 3412	588 21472
Phyllocladaceae	582 47	585 224	Pleurozoidaeae	582 333	588 311
Phyllogonaceae	582 3449	588 21531	Plocamaceae	582 2753	589 414
Phylloporaceae	582 2753	589 414	Plum pocket	582 28221	589 237
Phylloporaceae	582 2933	589 171	Plumbaginaceae	582 919	583 671
Phyllipyrrenaceae	582 292	589 16	Plumbago	582 919	583 671
Phyllosiphonaceae	582 267	589 4724	Plumieraceae	582 937	583 721
Physarales	582 2455	589 2932	Plums	582 734	583 37
Physaceae	582 2933	589 171	Poaceae	582 5421	584 9
Phytelphantonidae	582 545	584 5	Poales	582 541	584 84
Phytolagellatae	582 251	589 974	Po-ket fungi	582 28221	589 237
Phytolactineae	582 664	583 915	Podaceae	582 38724	589 2219
Phytomyxinae	582 28125	589 185	Podocarpaceae	582 47	585 223
Phytosarcodina	582 24	589 29	Podophyllaceae	582 6753	583 117
Pickering weed	582 567	584 34	Podostemonales	582 637	583 92
Picramniaceae	582 7521	583 241	Poison wood	Anacardiaceae	582 765
Pigout	Apiaceae	582 893	Euphorbiaceae	582 757	583 951
	Araliaceae	582 892		582 6643	583 915
	Juglandaceae	582 628		582 6643	583 915
	Tricoccaeae	582 757		582 6831	583 131
Pigweed	amaranthus	582 663		582 943	583 7611
	chesopodium	582 662		582 94	583 761
		582 28711		582 943	583 7611
Palacraceae		582 2933		582 943	583 7611
Palcocarpaceae		582 34495		582 2641	589 47534
Pilotrichaceae		582 883		582 669	583 1541
Pimento		582 9183			
Pimpernel	Primulaceae	582 893			
	Umbelliferae	582 47			
Pinaceae		582 47			
Pinales		582 47			
Pineapple		582 564			
Pines		582 47			
	ground	582 381			
	old	582 47			
Pinguiculaeae		582 9534			
Pinks		582 669			
Pinkster		582 9124			
Pinxter		582 9124			
Piperaleae		582 622			
Pipewort		582 558			
Pipusawa		582 9123			
Piptocarphalidaceae		582 28122			
Pistionidae		582 5471			
Pitcherplants		582 691			
	Australian	582 746			
	East Indian	582 692			
Pittosporaceae		582 718			
Pityaceae		582 465			
Placoderm desmids		582 2622			
Plagiorhaceae		582 3451			
Plakopodaceae		582 242			
Planchoraceae		582 877			
Plane tree		582 732			
Planer tree		582 635			
Plantaginiales		582 96			
Plantains		582 96			
	mud	582 507			
	water	582 536			
Plasmodiophorales		582 28125			
Platanaceae		582 732			
Plectiscaceae		582 28212			
Plectobandusae		582 28724			
Pleocandras		582 594			
Pleoporeaceae		582 28219			
Pleurocaccaceae		582 232			
Pleurocarpi		582 3449			
Pleurococcaceae		582 2644			
Pleuromenaceae		582 3829			
Pleurophascaceae		582 3412			
Pleurozoidaeae		582 333			
Plocamaceae		582 2753			
Plum pocket		582 28221			
Plumbaginaceae		582 919			
Plumbago		582 919			
Plumieraceae		582 937			
Plums		582 734			
Poaceae		582 5421			
Poales		582 541			
Po-ket fungi		582 28221			
Podaceae		582 38724			
Podocarpaceae		582 47			
Podophyllaceae		582 6753			
Podostemonales		582 637			
Poison wood	Anacardiaceae	582 765			
	Euphorbiaceae	582 757			
Poleberry		582 6643			
Pokeweed		582 6643			
Polanisia		582 6831			
Polemonaceae		582 943			
Polemonales		582 94			
Polemoniaceae		582 943			
Polemonium		582 943			
Polyblephandeeae		582 2641			
Polycarpaceae		582 669			
Polycarpellatae					
	axillaro-apopetalous	582 67-75			
	gamopetalous	582 91-92			
Polycarpaeae		582 67			
Polygalaceae		582 7552			
Polygalales		582 755			
Polygalinaeae		582 755			
Polygonales		582 657			
Polygonoideae		582 657			
Polykrikaceae		582 2544			
Polypetalae		582 62 69			
Polypodiaceae		582 30474			
Polyporaceae		582 28723			
Polytrichales		582 3471			
Polytrichinales		582 3447			
Pomaceae		582 734			
Pomegranate		582 876			
Ponoiidae		582 734			
Pond scum		582 2623			
Pondweed		582 532			
Pontederiaceae		582 567			
Pontederiales		582 566			
Pontederimeae		582 566			
Poplar		582 623			
Poppy		582 682			
	water	582 5372			
Porantheroideae		582 757			
Portulacineae		582 665			
Potamogetonaceae		582 531			
Potato		582 9514			
	blight	582 28114			
Pothordeae		582 5471			
Potiaceae		582 3443			
Pottiales		582 3443			
Pouchetaceae		582 7545			
Powdery fungi		582 28214			
	lichens	582 2931			
	mildews	582 28211			
Prasnoideae		582 2931			

	CD	DC
Rice grasses	582 5421	584 927
paper plant	582 994	583 58
tree	582 892	583 491
Ricinocarpaceae	582 757	583 951
Ruellidae	582 333	588 312
Rupe rot fungi	582 2883	589 243
Riverweed Podostemonaceae	582 637	583 921
potamogeton	582 532	584 742
Rivulariaceae	582 232	589 83
Roccellaceae	582 2033	589 172
Rock rose	582 8352	583 134
Rockweeds	582 2727	589 432
Root rot fungi	582 2883	589 243
Rondulaceae	582 726	583 392
Rosaceae	582 734	583 37
Rosales	582 71	583 3
Rose	582 734	583 37
of Jericho	Brassicaceae 582 6832	583 123
	Inulaceae 582 998	583 5542
Rosemary	582 9492	583 891
see also Marsh rosemary		
Rosewood Australian	582 7523	583 251
bastard	582 7523	583 251
Bignoniaceae	582 9518	583 84
Fabaceae	582 739	583 322
juniper	582 47	585 216
Melaceae	582 7523	583 251
Mimosaceae	582 737	583 321
Mycoporaceae	582 956	583 871
Sap ndaceae	582 7724	583 282
Roadineae	582 731	583 31
Rosidae	582 734	583 37
Rough leaf tree	582 813	583 112
Round diatoms	582 2611	589 622
Roxburghiaceae	582 5721	584 31
Roydsniidae	582 6831	583 131
Rubiaceae	582 972	583 52
Rubiales	582 97	583 51
Rue	582 7519	583 23
Rushes	582 571	584 45
see also distinctive names		
Rust fungi	582 2852	589 225
white	582 28114	589 252
Rutaceae	582 7519	583 23
Rutenbergiaceae	582 3449	588 21532
Rutariaceae	582 2611	589 6222
Rutoidae	582 7519	583 23
Sabalaceae	582 545	584 5
Sabuneeae	582 773	583 291
Saccharomycetaceae		
fungi	582 28223	589 2361
protophyta	582 23	589 91
Saccoderm desmida	582 2622	589 614
Sagflower	582 998	583 5533
Sage	582 9492	583 891
rose	582 8425	583 455
Sagebrush	582 998	583 5533
Saint Johnswort	582 824	583 162
Sabcales	582 623	583 981
Sabuneeae	582 623	583 981
Sahaburyaceae	582 46	585 7
Salsify	582 998	583 552
Salvadoraceae	582 7067	583 716
Salviniaceae	582 39475	587 3111
Samsydeae	582 824	583 541
San Juan tree	582 7543	583 145

	CD	DC
Sandalwood	582 6416	583 943
bastard	582 956	583 871
Sanicle	582 893	583 481
Saniculoidae	582 893	583 481
Sapadranno	582 7543	583 145
Santalaceae	582 6416	583 943
Santalales	582 64	583 94
Santalineae	582 641	583 943
Sapindaceae	582 7724	583 282
Sapindales	582 76-77	583 28
Sapindineae	582 772	583 281
Sapodilla	582 922	583 6811
Sapotaceae	582 922	583 6811
Sapotineae	582 921	583 681
Saprolegniales	582 28112	589 26
Saprophytes	582 28	589 2
Sacophytoidae	582 653	583 947
Sargassaceae	582 2727	589 452
Sargentodoxaceae	582 6752	583 1174
Sauraceneae	582 69	583 121
Sarsaparilla smilar	582 5722	584 323
wild aralia	582 892	583 491
Sassafras	582 678	583 931
Satinwood Meliaceae	582 7523	583 251
Monimaceae	582 6779	583 1147
Rutaceae	582 7519	583 23
Saurauaceae	582 814	583 1662
Saururaceae	582 622	583 9252
Savory	582 9492	583 891
Saw wort	582 998	583 5533
Saxifragaceae	582 717	583 381
Saxifragales	582 714	583 38
Saxifragineae	582 714	583 38
Saxifragoidae	582 717	583 381
Scabs fungi	582 2884	589 2411
Scale mosses	582 333	588 31
Scapanoidae	582 333	588 311
Scheuchzeriaceae	582 535	584 744
Schistostegales	582 3446	588 2143
Schizaceae	582 39472	587 3122
Schizandraceae	582 6771	583 1143
Schizogonales	582 265	589 47432
Schizolaniaceae	582 792	583 168
Schizomyces	582 231	589 95
Schizophyceae	582 232	589 8
Schizophylla	582 23	589 7
Schizosporaceae	582 2852	589 225
Schoepfioidae	582 6412	583 26
Sciadopityoidae	582 47	585 711
Scilloideae	582 5722	584 32
Scirpoidae	582 5424	584 841
Scitamineae	582 58	584 31
Scleranthaeae	582 669	583 1345
Sclerodermatunae	582 28724	589 2219
Sclerospermae	582 85	583 471
Scouring rushes	582 3742	587 211
Screw pineae	582 5222	584 611
Scrophulariales	582 951	583 8
Scutellarioidae	582 9492	583 891
Scrophostegaceae	582 635	583 9624
Scytonemaceae	582 232	589 83
Scytonemataceae	582 232	589 83
Scytopetalineae	582 799	583 193
Scytosiphonaceae	582 2721	589 457
Sea ferns	582 267	589 4727
mosses	582 2755	589 412
Seaweeds	582 26-27	589 3-6

	CD	DC			CD	DC
Sedge	583 3433	584 841	Snowdrop tree	Oleaceae	582 931	583-71
Seed ferns	582 43	585-95		styrax	582 938	583 6861
plants	583 4	582	Soapberry		582 7724	583 283
covered	582 5	583-584	Soapwort		583 669	583 153
first	582 43	585	Solanaceae		582 9514	583 79
naked	583 43	585	Solanales		582 9514	583 79
Seedless plants	582 2-3	586	Solanum		583 951	583 8
Selaginaceae	582 9316	583 876	Solenaceae		582 2611	589 6223
Selaginaceae	582 9516	583 876	Solenopora		582 2753	589 413
Selaginellales	582 382	587 912	Solenopora		582 5723	584 313
Selenastraceae	582 2644	589 47522	Solomon seal		582 874	583 443
Seligeraceae	582 3442	588 21473	Sonneratiaceae		582 3448	588 21416
Sematophyllaceae	582 3451	588 21511	Sorapillaceae		582 38219	589 2351
Senecionidaceae	582 998	583 5536	Sordaniaceae		582 141	589 293
Senna	582 718	583 313	Sorophora		582 657	583 917
Sensitive plant	582 737	583 321	Sorrel		582 819	583 2663
Sequoia	582 47	585 211	Sour nut		582 894	583 497
Sesame	582 9522	583 85	Sour gum tree	Cornaceae	582 879	583 413
Shield fern	582 39474	587 3127		Nyssaceae	582 998	583 553
Shinleaf	582 9123	583 611	Sow thistle		582 347	584 64
Side mosses	582 3449	583 213	Spadiceae		582 564	584 33
Side-saddle flower	582 691	583 121	Spanish moss		582 323	584 612
Sagittariaceae	582 3828	587 9123	Sparaganeae		582 7519	583 23
Salenaceae	582 669	583 153	Spathelidaceae		582 547	584 64
Salenaceae	582 669	583 153	Spathulaceae		582 6711	583 118
Sileneaceae	582 669	583 153	Spearwort		582 9492	583 891
Sileneaceae	582 669	583 153	Sperguleae		582 669	583 1543
Silicoflagellatae	582 238	589 973	Spermaphyta		582 4	583
Salic-cotton tree	582 797	583 173	Spermatophyta		582 7721	589 457
Salicweed	582 938	583 73	Spermatophyta		582 4	583
Samarubaceae	582 7521	583 241	Spermophorales		582 2820	589 23
Siphonales	582 267	589 473	Sphacelariales		582 2723	589 456
Siphonaceae	582 266-267	589 471	Sphaerellaceae		582 2641	589 47534
Siphonocladales	582 266	589 473	Sphaerellales		582 28219	589 2351
Siphonomycetes	582 382	589 25	Sphaeroidaceae		582 2822	589 243
Siphonophyceae	582 266-267	589 471	Sphaerobolaceae		582 28724	589 2119
Siphonostales	582 3581	589 9722	Sphaerocarpaceae		582 332	588 312
Sirobasidiaceae	582 28712	589 2233	Sphaerocarpaceae		582 3753	589 413
Sirobasidiaceae	582 239	589 83	Sphaerophoraceae		582 2921	589 173
Skunk cabbage	582 5471	584 63	Sphaerophoraceae		582 266	589 4732
Skunkweed	582 943	583 7611	Sphaeropsidales		582 2823	589 243
Slime algae	582 732	589 8	Sphagnales		582 341	588 1
fungi	582 24	589 29	Sphenophyllales		582 371	587 24
mold fungi	582 24	589 29	Sphenopteridales		582 43	585 979
Slit fungi	582 28215	589 2333	Spiderwort		582 565	584 38
lichens	582 2933	589 172	Spice rush		582 3424	584 841
Smartweed	582 657	583 917	Spindle tree		582 7663	583 273
Smielacaeae	582 5723	584 323	Spiraeaceae		582 734	583 37
Smilax	582 3723	584 323	Spiridaceae		582 2443	585 21412
Snout fungi	582 2851	589 2271	Sporidaceae		582 231	589 953
Snakeroot			Sporogynaceae		582 2623	589 613
black	582 6731	583 111	Splachnaceae		582 3445	583 21412
button	582 893	583 481	Splachnaceae		582 2723	589 455
Apocynaceae	582 998	583 5544	Splenwort		582 39474	587 3177
Canada	582 65	583 924	Spore plants		582 2-3	586
heart	582 65	583 924	Sporochneae		582 2781	589 417
sanicle	582 893	583 481	Spot fungi		582 2822	589 342
Senega	582 7552	583 143	Spruce		582 47	583 213
Virginia	582 65	583 924	Spruce		582 2453	589 2953
white	582 998	583 3344	Spruce		582 757	583 951
Snapdragon	582 9516	583 81	Squamaraceae		582 865	583 9311
Snowweed	582 998	583 5338	Squamaraceae		582 757	589 415
Snowberry	582 973	583 511	Stachyodeae		582 9492	583 291
Caprifoliaceae	582 9124	583 612	Stachyodeae		582 3424	583 1392
creeping	582 9124	583 612	Stachyodeae		582 7668	583 274
Ericaceae	582 9124	583 612				
Rubiaceae	582 972	583 52				

	CD	DC		CD	DC
Staff tree	581 7665	583 212	Syringa	582 931	583 71
Staphyleaceae	581 7669	583 277	saufrage	582 717	583 381
Star			Syrhophodontaceae	582 3443	588 21463
apple	581 931	583 6811	Systematic botany	582	582-589
flower	582 844	583 453	Tabellariaceae	582 2615	589 6236
of Bethlehem	582 5722	584 31	Taccaceae	582 5726	584 26
Liliaceae	581 9183	583 672	Taenioptendae	582 43	585 973
Primulaceae	582 972	583 52	Tamarac	582 47	585 213
Rubiaceae	582 669	583 1542	Tamaricaceae	582 831	583 158
Starworts			Tamarisk	582 8316	583 158
water	582 759	583 253	Tansy	582 998	583 5537
Stegnospermoudeae	582 6643	583 915	Tape gras	582 539	584 11
Steloxylaceae	582 43	585 963	Taphrinaceae	582 2821	589 237
Stemonaceae	582 5721	584 31	Targomortae	582 331	588 332
Stemoniales	582 2453	589 2932	Tasajo	582 85	583 471
Stenomyelaceae	582 43	585 953	Taxaceae	582 47	585 221
Stephanurusdeae	582 333	588 312	Taxales	582 47	585 22
Sterculaceae	582 798	583 18	Taxodiaceae	582 47	585 211
Stereotestales	582 2582	589 9723	Taxonomy	582	582-589
Sturtaceae	582 2933	589 171	Tea	582 823	583 166
Stutidaceae	582 28213	589 2335	Teatels	582 977	583 541
Stigomatiaceae	582 212	589 83	Teliosporeae	582 2825	589 224
Stibaceae	582 2824	589 2411	Terfezaceae	582 28212	589 238
Stilophoraceae	582 2721	589 457	Terminalaceae	582 882	583 414
Strickhorn fung.	582 28728	589 2215	Termetroemaceae	582 823	583 166
Stutchworts	582 669	583 1542	Tetracyclae		
Stonacrops	582 715	583 39	Sympetaleae, inferae	582 97-99	583 51-591
Stoneworts	582 271	588 4	superae	582 93-96	583 7-8
Stopper Myrtaceae	582 883	583 42	Tetradiclidaceae	582 7517	583 221
Storax	582 928	583 6861	Te ramataceae	582 2513	589 9746
Storkbill	582 7512	583 223	Tetraphidales	582 3447	588 2142
Straubergnaceae	582 2818	583 1664	Tetrasporaceae	582 2644	589 47532
Stratutodaeae	582 539	584 11	Tetrasporineae	582 2724	589 451
Strawberry	582 734	583 37	Thalamiflorae	582 67-69	583 11-193
shrub	582 6773	583 113	Thalassiodaeae	582 539	584 11
Strelitzideae	582 58	584 214	Thallophyta	582 32	589
Strianaceae	582 2721	589 457	Theaceae	582 823	583 166
Strigulaceae	582 292	589 16	Thales	582 812	583 16
Strobilophyta	582 47	585 2	Thecatales	582 2532	589 97332
Stylewort	582 996	583 571	Theineae	582 812	583 16
Stylidaceae	582 906	583 571	Thelephoraceae	582 28723	589 222
Styracaceae	582 928	583 6861	Theliaceae	582 3451	588 21512
Sugar cane	582 5421	584 925	Thelochustaceae	582 2933	589 171
Sumac	582 765	583 292	Thelotremataceae	582 2933	589 171
Sundew	582 693	583 393	Thelygonaceae	582 888	583 9152
Sunflower	582 998	583 5547	Theophrastaceae	582 9281	583 678
false	582 998	583 5535	Thiobacteria	582 231	589 952
Supplejack	582 782	583 2791	Thistles	582 998	583 5533
Supucasa nut	582 877	583 423	Thoreaceae	582 27512	589 416
Suranoraceae	582 7521	583 241	Thundaceae	582 2412	588 27722
Surrelliondeae	582 2615	589 6232	Thuja	582 47	585 215
Swamp apple	582 9124	583 62	Thuyodeae	582 47	585 215
Sweet gum	582 725	583 394	Thuyopodaceae	582 47	585 215
Sweet-flag	582 5471	584 65	Thuyopodaceae	582 47	585 215
Sweetgale	582 625	583 974	Thundbergodeae	582 955	583 86
Sweet-leaf hypericum	582 824	583 167	Thurnaceae	582 562	584 391
Symplocaceae	582 927	583 6863	Thuja	582 47	585 215
Sweet-william sileneodeae	582 669	583 153	Thuyodeae	582 47	585 215
see also Wild sweet-william			Thuyopodaceae	582 47	585 215
Syctemordeae	582 7523	583 251	Thyme	582 9492	583 891
Sycamore Platanaceae	582 732	583 971	Thymelaeaceae	582 865	583 9331
Uimaceae	582 635	583 9625	Thymelaeales	582 861	583 933
Sycamore-fig	582 635	583 9622	Thymelaeaceae	582 861	583 933
Sycamore-maple	582 7722	583 284	Thymelaeodeae	582 865	583 9331
Sympetaleae	582 9	583 5	Tietaceae	582 304	587 38
Symphodontaceae	582 34495	588 21521	Tiliaceae	582 798	583 19
Symplocaceae	582 927	583 6863	Tilletiaceae	582 2851	589 2272
Synanthiae	582 546	584 62	Tilopteridales	582 2726	589 453
Synchytrineae	582 28125	589 285			

		CD	DC			CD	DC
Waterwort	Elatinaceae	582 8312	583 161	Wood wosses		582 3448	583 2145
	Phylodraceae	582 509	584 35	sorrel		582 7511	583 124
Was myrtle		582 625	583 974	Woodbine	Caprifoliaceae	582 973	583 311
Weberaceae		582 3448	583 2121	Vitaceae		582 783	583 2792
Wedge-leaved calamites		582 371	587 21	Wormwood		582 908	583 5537
Wellstodiaceae		582 9482	583 77	Wrangelaceae		582 27517	589 416
Wchitschiaceae		582 49	585 12	Xanthopyreniaceae		582 292	589 16
Wheat grasses		582 5471	584 937	Ximema		582 1112	583 26
White cedar		582 47	585 215	Xylanaceae		582 28219	589 2351
Whitewood	canella	582 8421	583 137	Xylaria		582 6775	583 115
	magnolia	582 6771	583 114	Xyridaceae		582 557	584 26
	tilia	582 795	583 19	Xyridales		582 55-56	584 3
	Tricoceae	582 757	583 951	Yams		582 5727	584 27
Willow worts		582 669	583 1544	Yarrow		582 998	583 5537
Whortleberry		582 9124	583 011	Yeast fungi		582 28223	589 2361
Wild				protophyta		582 23	589 91
sweet-william	polemonium	582 943	583 7611	Yellow yestamun		582 935	583 74
silenoidae		582 609	583 153	Yellow eyed grass		583 557	584 31
Willow herb		582 886	583 445	Yellow green algae		582 259	589 48
Willows		582 623	583 981	Yellow-wood	Leguminosae	582 739	583 322
Winged fruit tree		582 825	583 167	Rutaceae		582 7519	583 23
pigweed		582 662	583 914	Yews		582 47	585 221
Winteraceae		582 6771	583 1142	Zamiaceae		582 44	585 912
Winteranaceae		58 8421	583 137	Zingiberaceae		582 58	584 213
Winterberry		582 7664	583 2781	Zinnia		582 998	583 5547
Wintersoon		583 9123	583 631	Zoosporaeae		582 263	589 67
	Anonon	582 9124	583 62	Zoosporineae		582 2644	589 47523
Witch hazel		582 725	583 394	Zoysene		582 5421	584 923
Witch's bew'n		582 28221	589 237	Zigmeratales		582 2623	589 612
broom		582 48221	589 237	Zygomycetes		582 2812	589 28
With schellnaceae		582 295	589 47427	Zygomyceteae		582 261-262	589 6
Wolfberry		582 5472	584 63	Zygophyllaceae		582 7517	583 221
				Zygosporaeae algae		582 261	262 589 6
				fungi		582 2812	589 27